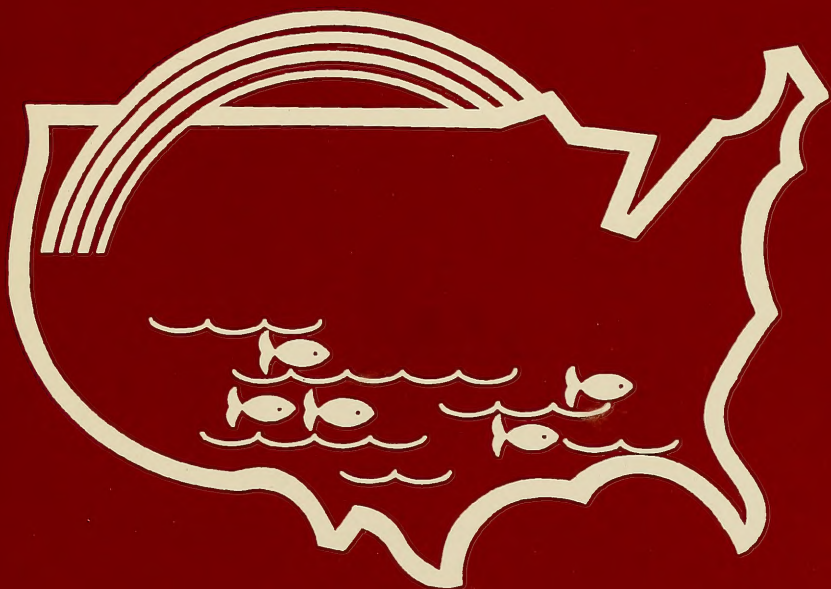




Current Fishery Statistics No. 9600

Fisheries of the United States, 1996

July 1997

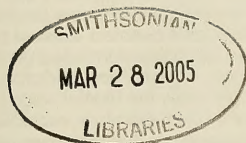


U.S. DEPARTMENT
OF COMMERCE

National Oceanic and
Atmospheric Administration

National Marine
Fisheries Service

Fisheries of the United States, 1996



Prepared by:
Fisheries Statistics Division

Mark C. Holliday, Chief
Barbara K. O'Bannon, Editor

Silver Spring, MD
July 1997



U.S. DEPARTMENT OF COMMERCE,
William Daley, Secretary

National Oceanic and Atmospheric Administration
D. James Baker, Under Secretary

National Marine Fisheries Service
Rolland A. Schmitten, Assistant Administrator

PREFACE

FISHERIES OF THE UNITED STATES, 1996

This publication is a preliminary report for 1996 on commercial and recreational fisheries of the United States with catches in both the U.S. and foreign Exclusive Economic Zones (EEZ). This annual report provides timely answers to frequently asked questions.

SOURCES OF DATA

Information in this report came from many sources. Field offices of the National Marine Fisheries Service (NMFS), in cooperation with various States, collected and compiled data on U.S. commercial landings and processed fishery products. The NMFS Fisheries Statistics and Economics Division in Silver Spring, MD, managed the collection and compilation of recreational statistics, and tabulated and prepared all data for publication. Sources of other data appearing in this publication are: U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Coast Guard, U.S. Customs Service, U.S. Department of the Interior, and U.S. Department of Agriculture, and Food and Agriculture Organization (FAO) of the United Nations.

PRELIMINARY AND FINAL DATA

Data on U.S. commercial and recreational landings, employment, prices, and production of processed products are preliminary for 1996. Final data will be published in other NMFS Current Fishery Statistics publications.

The Fisheries Statistics Division of NMFS takes this opportunity to thank members of states, industry, and foreign nations who provided the data that made this publication possible.

Program leaders of the field offices were: Gregory Power, New England, Middle Atlantic, and Chesapeake; Tony Frank, National Biological Service Science Center, Great Lakes States; Nelson Johnson, Guy Davenport, and Margot Hightower for the South Atlantic and Gulf States; Patricia J. Donley, California and Hawaii; John K. Bishop, Oregon and Washington; and Patsy Bearden, Alaska.

NOTES

The time series of U.S. catch by species and distance from shore included in this year's "Fisheries of

the U.S." is estimated by the National Marine Fisheries Service.

As in past issues of this publication, the units of quantity and value are defined as follows: U.S. landings are shown in round weight (except mollusks which are in meat weight), unless otherwise noted; quantities shown for U.S. imports and exports are in product weight, as reported by the U.S. Bureau of the Census, unless otherwise noted; the value of the U.S. domestic commercial catch is exvessel (in the Review Section on important species actual and deflated exvessel prices are shown. The deflated value was computed using the Gross Domestic Products Implicit Price Deflator); the value for U.S. imports is generally the market value in the foreign (exporting) country and, therefore, excludes U.S. import duties, freight charges from the foreign country to the United States, and insurance; the value for exports is generally the value at the U.S. port of export, based on the selling price, including inland freight, insurance, and other charges. Countries and territories shown in the U.S. foreign trade section are established for statistical purposes in the Tariff Schedules of the United States Annotated (International Trade Commission) and reported by the U.S. Bureau of the Census.

SUGGESTIONS

The Fisheries Statistics Division wishes to provide the kinds of data sought by users of fishery statistics, and welcomes any comments or suggestions that will improve this publication.

Address all comments or questions to:

Fisheries Statistics and Economics Division, (F/ST1)
National Marine Fisheries Service, NOAA
1315 East-West Highway - Rm. 12340
Silver Spring, MD 20910-3282
PHONE: 301-713-2328
FAX: 301-713-4137

Members of the Fisheries Statistics Division in Silver Spring, who helped with this publication were: Darryl Bullock, Josanne Fabian, Tom Ferris, Karen Foster, Amy Gautam, Ray Glass, Gerry Gray, Deborah Hogans, Mark Hollday, Steven Koplin, Steve Myers, Barbara O'Bannon, Maury Osborn, Liz Pritchard, Ron Salz, Warren Schlechte, Dick Schween, David Sutherland, Glen Taylor, William Uttley, David Van Voorhees, John Ward, and Lella Wise.

CONTENTS

	Page		Page
PREFACE AND ACKNOWLEDGEMENT	ii	U.S. EXPORTS -- Continued:	
REVIEW	iv	Crabmeat.....	110
U.S. COMMERCIAL FISHERY LANDINGS:		Herring.....	110
Species.....	1	Industrial.....	111
Disposition.....	3	U.S. SUPPLY:	
States.....	4	Edible and nonedible.....	113
Regions.....	4	Finfish and shellfish.....	114
Ports.....	5	Blocks.....	115
Catch by species and distance from		All fillets and steaks.....	115
shore (thousand pounds).....	6	Groundfish fillets and steaks.....	115
Catch by species and distance from		Tuna, fresh and frozen.....	116
shore (metric tons).....	10	Canned sardines.....	117
U.S. Landings for Territorial		Canned salmon.....	117
Processions.....	14	Canned tuna.....	117
U.S. Aquaculture Production,		King crab.....	118
Estimated 1984-1995.....	18	Snow (tanner) crab.....	118
Historical Landings of Swordfish,		Canned crabmeat.....	118
by state.....	20	Lobster, American.....	119
U.S. MARINE RECREATIONAL FISHERIES	26	Lobster, Spiny.....	119
MRFSS sample coverage.....	28	Clams.....	120
Number of participants and trips.....	29	Oysters.....	120
Number of fish caught and the weight		Scallops.....	120
of Harvest, by species and sub-		Shrimp.....	121
region or by species and area fished....	34	Industrial.....	122
WORLD FISHERIES:		PER CAPITA:	
U.S. and world.....	83	U.S. consumption.....	124
Countries.....	84	U.S. use.....	127
Continents.....	85	World consumption-by region	
Fishing areas.....	85	and country.....	128
Species groups.....	86	PRICES, INDEX OF EXVESSEL	130
Disposition.....	86	VALUE ADDED	132
Imports and exports, by leading		EMPLOYMENT, CRAFT, AND PLANTS	133
countries.....	87	FISHERY PRODUCTS INSPECTION	136
U.S. PRODUCTION OF PROCESSED FISHERY PRODUCTS:		MAGNUSON FISHERY CONSERVATION AND	
Value.....	89	MANAGEMENT ACT OF 1976 (MFCMA):	
Fish sticks, fish portions, and		General.....	138
breaded shrimp.....	89	Optimum yield, U.S. capacity, reserve,	
Fillets and steaks.....	90	and allocations.....	141
Canned.....	91	GENERAL ADMINISTRATIVE INFORMATION	142
Industrial.....	93	PUBLICATIONS:	
U.S. COLD STORAGE HOLDINGS	94	NOAA Library Services.....	148
U.S. IMPORTS:		Government Printing Office.....	148
Principal items.....	97	National Marine Fisheries Service --	
Edible and nonedible.....	98	Natl. Technical Information Service....	149
Value and duties.....	98	SERVICES:	
Continent and country.....	99	National Marine Fisheries Service --	
Blocks.....	100	Bulletin Boards.....	155
Groundfish fillets and steaks,		FAX-on-Demand.....	156
species.....	100	NMFS HomePages.....	158
Canned tuna and quota.....	101	Sea Grant Marine Advisory.....	160
Shrimp, country of origin.....	102	Fisheries Development.....	162
Shrimp, by product type.....	103	Inspection.....	Inside back cover
Industrial.....	103	GLOSSARY	163
U.S. EXPORTS:		INDEX	167
Principal items.....	105		
Edible and nonedible.....	106		
Continent and country.....	107		
Shrimp.....	108		
Salmon.....	109		
Crab.....	110		

REVIEW

U.S. LANDINGS. Commercial landings (edible and industrial) by U.S. fishermen at ports in the 50 states were 9.6 billion pounds or 4.3 million metric tons valued at a record \$3.5 billion in 1996—a decrease of 222.7 million pounds (down 2 percent), and \$248.9 million (down 7 percent) compared with 1995. The 1996 landings showed a decrease in major species such as Pacific hake, menhaden, pollock, pink and red salmon, and Pacific sardine when compared with 1995. The 1996 average exvessel price per pound paid to fishermen was 36 cents compared to the 38 cents they received in 1995. Finfish accounted for 86 percent of total landings, but only 51 percent of the total value.

Commercial landings by U.S. fishermen at ports outside the 50 states or transferred to internal water processing vessels (IWPs) were an additional 404.5 million pounds (183,500 metric tons) valued at \$159.4 million. This was a 11 percent, or 47.7 million pounds (21,600 metric ton) decrease in quantity and a \$16.9 million (9 percent) decrease in value compared with 1995. Most of these landings consisted of halibut landings in Canada, tuna landed in Puerto Rico, American Samoa and other foreign ports, and IWP transfers of sea herring.

Edible fish and shellfish landings in the 50 states were 7.5 billion pounds (3.4 million metric tons) in 1996—a decrease of 192 million pounds (87,100 metric tons) compared with 1995.

Landings for reduction and other industrial purposes were 2.1 billion pounds (948,000 metric tons) in 1996—a decrease of 1 percent compared with 1995.

The 1996 U.S. marine recreational finfish catch (including fish caught and released alive) on the Atlantic, Gulf, and Pacific coasts was an estimated 313.8 million fish taken on an estimated 64.2 million fishing trips. The harvest (fish kept) was estimated at 146.0 million fish weighing 208.3 million pounds.

WORLD LANDINGS. In 1995, the most recent year for which data are available, world commercial fishery landings were 112.9 million metric tons—an increase of 2.4 million metric tons (up 2 percent) compared with 1994.

China was the leading nation with 21.6 percent of the total catch; Peru, second with 7.9 percent; Chile, third with 6.7 percent; Japan, fourth with 6.0 percent; and United States, fifth with 5.0 percent.

PRICES. The 1996 annual exvessel price index for edible fish and shellfish decreased 15 percent from 1995. The annual index for industrial fish remained the same compared with 1995. Exvessel price indices decreased for 22 of the 32 species groups being tracked, increased for 9 species groups and stayed constant for only 1 species groups. The bluefin tuna price index had the largest decrease (76 percent) while the hard clams price index had the largest increase (31 percent).

PROCESSED PRODUCTS. The estimated value of the 1996 domestic production of edible and nonedible fishery products was \$7.4 billion, \$131.3 million (2 percent) less than the \$7.5 billion in 1995. The value of edible products was \$6.6 billion—a decrease of \$224.7 million (5 percent) compared with 1995. The value of industrial products was \$782.8 million in 1996—an increase of \$193.4 million (33 percent) compared with 1995.

FOREIGN TRADE. The total import value of edible and nonedible fishery products was \$13.1 billion in 1996—an increase of \$608.7 million (5 percent) compared with 1995. Imports of edible fishery products (product weight) were 3.2 billion pounds (1.4 million metric tons) valued at \$6.7 billion in 1996—an increase of 103.3 million pounds (3 percent), but a decrease of 62.1 million (1 percent) compared with 1995. Imports of nonedible (i.e., industrial) products were \$6.3 billion—an increase of \$670.8 million (11 percent) compared with 1995.

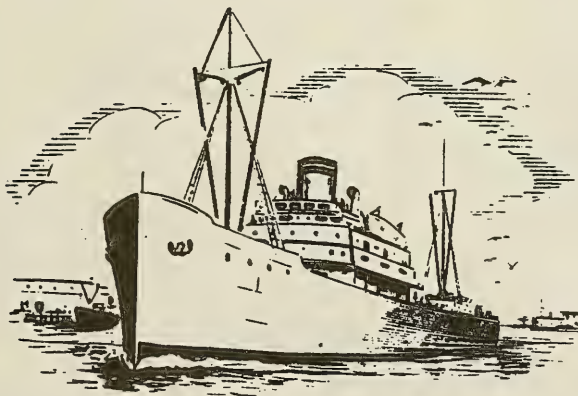
REVIEW

Total export value of edible and nonedible fishery products was \$8.7 billion in 1996—an increase of \$385.3 million (5 percent) compared with 1995. United States firms exported 2.1 billion pounds (958,022 metric tons) of edible products valued at \$3.0 billion—an increase of 64.9 million pounds (29,427 metric tons), but a decrease of \$230.0 million compared with 1995. Exports of nonedible products were valued at a record \$5.6 billion, \$615.3 million more than 1995.

SUPPLY. The U.S. supply of edible fishery products (domestic landings plus imports, round weight equivalent) was 13.6 billion pounds (6.2 million metric tons) in 1996—an increase of 41.0 million pounds compared with 1995. The supply of industrial fishery products was 2.8 billion pounds (1.3 million metric tons) in 1996—a decrease of 51.0 billion pounds (2 percent) compared with 1995.

PER CAPITA CONSUMPTION. U.S. consumption of hery products was 14.8 pounds of edible meat per person in 1996, down 0.2 pound from the 1995 per capita consumption of 15.0 pounds.

CONSUMER EXPENDITURES. U.S. consumers spent an estimated \$41.2 billion for fishery products in 1996. The 1996 total includes \$27.8 billion in expenditures at food service establishments (restaurants, carry-outs, caterers, etc.); \$13.2 billion in retail sales for home consumption; and \$283.9 million for industrial fish products. By producing and marketing a variety of fishery products for domestic and foreign markets, the commercial marine fishing industry contributed \$21.0 billion (in value added) to the U.S. Gross National Product.



REVIEW

OTHER IMPORTANT FACTS

Alaska pollock, with landings of 2.6 billion pounds (1.2 million metric tons), was the most important species in quantity and fifth in value for 1996, accounting for 27 percent of the commercial fishery landings in the United States.

Menhaden was the second most important species in quantity, but low in value.

Salmon were third in quantity and third in value.

Cods were fourth in quantity and seventh in value.

Hakes were fifth in quantity, but low in value.

Flounders were sixth in quantity, and sixth in value.

Shrimp were first in value, but eighth in quantity.

Crabs were second in value, but seventh in quantity.

Lobsters were low in quantity, but fourth in value.

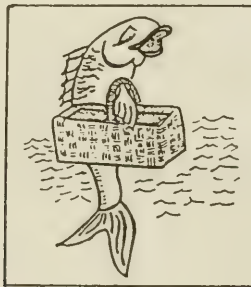
Tuna landings by U.S.-flag vessels at ports outside the continental United States amounted to 370.8 million pounds. Halibut and sea herring also were landed at ports outside the United States or transferred to internal water processing vessels in U.S. waters.

Dutch Harbor-Unalaska, Alaska, was the leading U.S. port in quantity of commercial fishery landings, followed by: Empire-Venice, Louisiana; Cameron, Louisiana; Seattle, Washington; and Kodiak, Alaska.

Dutch Harbor-Unalaska was also the leading U.S. port in terms of value, followed by: New Bedford, Massachusetts; Kodiak, Alaska; Key West, Florida; and Brownsville-Port Isabel, Texas.

Alaska led all states in volume with landings of 5.0 billion pounds, followed by Louisiana, 1.1 billion; Virginia, 659.7 million; California, 460.7 million; and Washington, 391.7 million pounds.

Alaska led all states in value of landings with \$1.2 billion, followed by Louisiana, \$267.3 million; Massachusetts, \$231.4 million; Florida, \$205.2 million; and Maine \$200.9 million.



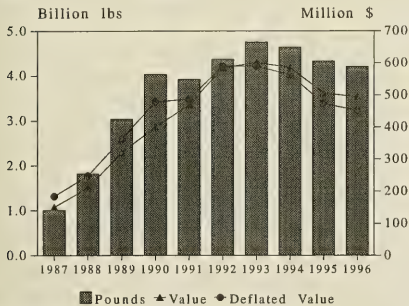
REVIEW

IMPORTANT SPECIES

ALASKA POLLOCK AND OTHER PACIFIC TRAWL FISH.

U.S. landings of Pacific trawl fish (Pacific cod, flounders, hake, Pacific ocean perch, Alaska pollock, and rockfishes) were 4.2 billion pounds valued at \$494.4 million—a decrease of 3 percent in quantity and a 2 percent decrease in value compared with 1995.

Trend in Commercial Landings, 1987-1996
Alaska Pollock, Other Pacific Trawl Fish



Landings of Alaska pollock decreased 8 percent to 2.6 billion pounds and were 13 percent lower than the 1991-1995 5-year average. Landings of Pacific cod were 605.3 million pounds—an increase of 2 percent from 591.4 million pounds in 1995. Pacific hake (whiting) landings were 430.5 million pounds (up 10 percent) valued at \$17.0 million (down 5 percent from 1995). Landings of rockfishes were 94.8 million pounds (up 5 percent) and valued at \$39.0 million (down 5 percent) compared to 1995. The 1996 rockfish landings were 10 percent lower than the 5-year average.

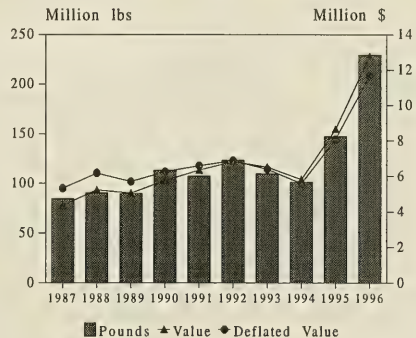
ANCHOVIES. U.S. landings of anchovies were 9.9 million pounds—an increase of 3.1 million pounds (46 percent) compared with 1995. Fifty-three percent of all landings were used for bait.

HALIBUT. U.S. landings of Atlantic and Pacific halibut were 49.1 million pounds (round weight) valued at \$83.5 million—an increase of 4.3 million pounds (10

percent) and \$16.7 (25 percent) compared with 1995. The Pacific fishery accounted for all but 29,000 pounds of the 1996 total halibut catch. The average exvessel price per pound in 1996 was \$1.70 compared with \$1.47 in 1995.

HERRING, SEA. U.S. commercial landings of sea herring were 317.6 million pounds valued at \$80.9 million—an increase of 52.9 million pounds (20 percent) and \$23.0 million (40 percent) compared with 1995. Landings of Atlantic sea herring were 197.1 million pounds valued at \$11.2 million—an increase of 49.9 million pounds (34 percent) and \$2.5 million (29 percent) compared with 1995.

Trend in Commercial Landings, 1987-1996
Atlantic Sea Herring



Landings of Pacific sea herring were 120.4 million pounds valued at \$69.7 million—an increase of 3.0 million pounds (3 percent) and \$20.5 million (42 percent) compared with 1995. Alaska landings accounted for 86 percent of the Pacific coast with 107.4 million pounds valued at \$54.8 million—an increase of 1.3 million pounds (1 percent) and \$15.7 million (40 percent) compared with 1995.

JACK MACKEREL. California accounted for 100 percent of the U.S. landings of jack mackerel in 1996. Total landings were 4.8 million pounds valued at

REVIEW

IMPORTANT SPECIES

\$296,000—an increase of 666,000 pounds (16 percent), and \$17,000 (6 percent) compared with 1995. The 1996 average exvessel price per pound stayed constant at 6 cents.

MACKEREL, ATLANTIC. U.S. landings of Atlantic mackerel were 34.8 million pounds valued at \$4.6 million—an increase of 16.1 million pounds (86 percent) and \$1.9 million (68 percent) compared with 1995. Rhode Island with 13.8 million pounds and New Jersey with 18.0 million pounds had a total of 91 percent of the total landings. The average exvessel price per pound in 1996 was 13 cents, down from 15 cents in 1995.

MACKEREL, CHUB. Landings of Chub mackerel were 22.0 million pounds valued at \$1.3 million—an increase of 3.0 million pounds (16 percent) and \$206,000 (18 percent) compared with 1996. The average exvessel price per pound stayed at 6 cents.

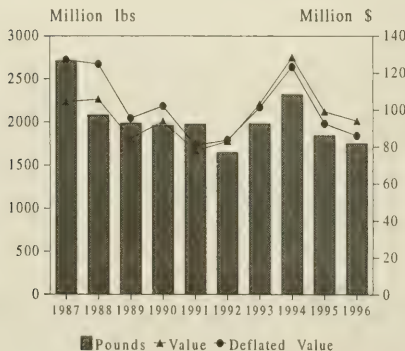
MENHADEN. The U.S. menhaden landings were 1.8 billion pounds valued at \$94.2 million—a decrease of 91.5 million pounds (5 percent) and \$5.0 million (5 percent) compared with 1995. Landings decreased by 134.6 million pounds (17 percent) in the Atlantic states and increased 43.2 million pounds (4 percent) in the Gulf states compared with 1995. Landings along the Atlantic coast were 671.7 million pounds

valued at \$39.7 million. Gulf region landings were 1.1 billion pounds valued at \$54.5 million. Menhaden are used primarily for the production of meal, oil, and solubles. Small quantities are used for bait and animal food.

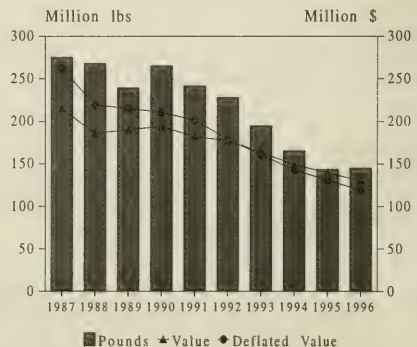
NORTH ATLANTIC TRAWL FISH. Landings of butterfish, Atlantic cod, cusk, flounders (blackback, fluke, yellowtail and other), haddock, red and white hake, ocean perch, pollock and whiting (silver hake) in the North Atlantic (combination of New England, Middle Atlantic, and Chesapeake Regions) were 134.7 million pounds valued at \$115.2 million—an increase of 16.6 million pounds (14 percent), but a decrease of \$7.2 million (6 percent) compared with 1995. Of these species, flounder led in total value in the North Atlantic accounting for 49 percent of the total; followed by cod, 23 percent; and whiting, 12 percent.

The 1996 landings of Atlantic cod were 31.4 million pounds valued at \$26.6 million—an increase of 1.8 million pounds (6 percent), but a decrease of 1.6 million (5 percent) compared with 1995. The exvessel price per pound was 85 cents in 1996 down from 95 cents per pound in 1995.

Trend in Commercial Landings, 1987-1996
Atlantic and Gulf Menhaden



Trend in Commercial Landings, 1987-1996
North Atlantic Trawl Fish



REVIEW

IMPORTANT SPECIES

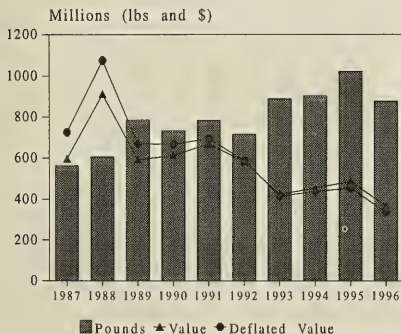
Landings of yellowtail flounder were 5.3 million pounds—an increase of 1.1 million pounds (28 percent) from 1995, and about 55 percent of its 5-year average.

Haddock landings increased to 1.3 million pounds (43 percent) and \$1.5 million (24 percent) compared to 1995.

North Atlantic pollock landings were 6.5 million pounds valued at \$4.5 million—a decrease of 623,000 pounds (9 percent) and \$2.1 million (31 percent) compared with 1995.

PACIFIC SALMON. U.S. commercial landings of salmon were 877.1 million pounds valued at \$368.7 million—a decrease of 143.7 million pounds (14 percent), and \$117.4 million (24 percent) compared with 1995. Alaska and Washington accounted for 97 percent and 2 percent of the total landings, respectively. Sockeye salmon landings were 318.4 million pounds valued at \$266.4 million—a decrease of 31.2 million pounds (29 percent), and \$45.9 million (15 percent) compared with 1995. Chinook salmon landings decreased to 20.5 million pounds—down 4.3 million pounds (17 percent) from 1995. Pink salmon landings were 309.8 million pounds—a decrease of 134.8 million pounds (30 percent); chum salmon increased to 180.6 million pounds (18 percent); and coho salmon decreased to 47.7 million pounds—a decrease of 1.4 million pounds (3 percent) compared with 1995.

Trend in Commercial Landings, 1987-1996
Pacific Salmon



Alaska landings were 854.8 million pounds valued at \$352.4 million—a decrease of 131.7 million pounds (13 percent), and \$108.8 million (24 percent) compared with 1995. The distribution of Alaska salmon landings by species in 1996 was: sockeye, 316.4 million pounds (37 percent); pink, 309.8 million pounds (36 percent); chum, 173.7 million pounds (20 percent); coho, 45.0 million pounds (5 percent); and chinook, 9.8 million pounds (1 percent). The exvessel price per pound for all species in Alaska was 41 cents in 1996—a decrease of 6 cents from 1995.

Washington salmon landings were 14.2 million pounds valued at \$6.9 million—a decrease of 10.2 million pounds (42 percent), and \$2.6 million (28 percent) compared with 1995. The biennial fishery for pink salmon went from 10.2 million pounds in 1995 to no catch in 1996. Washington landings of chum salmon were 6.9 million pounds (up 1 percent); followed by sockeye, 2.0 million pounds—a decrease of 302,000 pounds (down 13 percent); silver, 2.5 million pounds (down 15 percent); and chinook, 2.7 million pounds (up 27 percent) compared with 1995. The average exvessel price per pound for all species in Washington increased from 39 cents in 1995 to 48 cents in 1996.

Oregon salmon landings were 2.8 million pounds valued at \$3.3 million—an increase of 30,000 pounds (1 percent), but a decrease of \$267,000 (8 percent) compared with 1995. Landings of chinook salmon were 2.6 million pounds (unchanged); and coho, 217,000 pounds (up 14 percent). The average exvessel price per pound for all species in Oregon decreased from \$1.27 in 1995 to \$1.16 in 1996.

California salmon landings were 4.7 million pounds valued at \$6.0 million—a decrease of 1.9 million pounds (29 percent) and \$5.7 million (49 percent) compared with 1995. Landings of chinook salmon were 4.7 million pounds; coho landings were 17,000 pounds. The average exvessel price per pound paid to fishermen in 1996 was \$1.26 compared with \$1.76 in 1995.

SABLEFISH. U.S. commercial landings of sablefish were 59.9 million pounds valued at \$109.0 million—a decrease of 5.9 million pounds (9 percent) and a

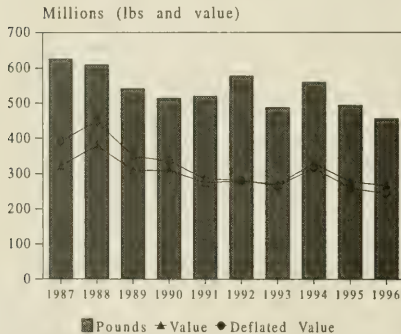
REVIEW

IMPORTANT SPECIES

decrease of \$14.7 million (12 percent) compared with 1995. Landings increased in Alaska to 41.0 million pounds, a decrease of 14 percent compared with 1995. Landings decreased in Washington to 4.9 million pounds (10 percent) and \$8.4 million (33 percent). The 1996 Oregon catch was 7.1 million pounds (up 1 percent) and \$10.1 million (up 9 percent) compared with 1995. California landings of 7.0 million pounds and \$8.6 million represent an 14 percent increase in quantity and 20 percent increase in value from 1995. The average exvessel price per pound in 1996 was \$1.82 compared with \$1.88 in 1995.

TUNA. Landings of tuna by U.S. fishermen at ports in the 50 United States, Puerto Rico, American Samoa, other U.S. territories, and foreign ports were 456.3 million pounds valued at \$266.1 million—a decrease of 37.7 million pounds (8 percent) and \$11.1 million (4 percent) compared with 1995. The average exvessel price per pound of all species of tuna in 1996 was 58 cents compared with 56 cents in 1995.

Trend in Commercial Landings, 1987-1996
Tuna (Includes U.S. and Foreign Ports)



Bigeye landings in 1996 were 14.4 million pounds—a decrease of 6.3 million pounds (31 percent) compared with 1995. The average exvessel price per pound was \$1.91 in 1996 compared with \$1.56 in 1995.

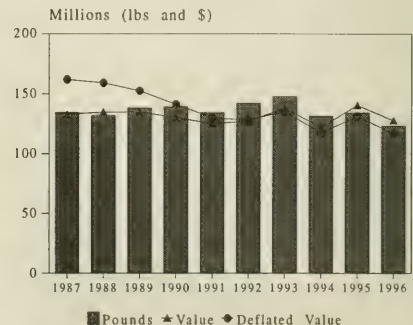
Skipjack landings were 283.4 million pounds—a decrease of 61.2 million pounds (18 percent) compared with 1995. The average exvessel price per pound was 40 cents in 1996, compared to 37 cents in 1995.

Yellowfin landings were 104.0 million pounds—an increase of 5.7 million pounds (6 percent) compared with 1995. The average exvessel price per pound was 64 cents in 1996 compared with 69 cents in 1995.

Bluefin landings were 12.1 million pounds—an increase of 8.7 million pounds (355 percent) compared with 1996. The average exvessel price per pound in 1996 was \$1.80 compared with \$7.51 in 1995.

CLAMS. Landings of all species yielded 123.2 million pounds of meats valued at \$127.8 million—a decrease of 11.0 million pounds (8 percent) and \$12.6 million (9 percent) compared with 1995. The average exvessel price per pound in 1996 was \$10.4 compared with \$10.5 in 1995.

Trend in Commercial Landings, 1987-1996
Clams



Surf clams yielded 63.4 million pounds of meats valued at \$38.2 million—an increase of 93,000 pounds (unchanged) but a decrease of \$815,000 (2 percent) compared with 1995. New Jersey was the leading State with 48.6 million pounds (unchanged), followed by New York, 7.7 million pounds (up 12

REVIEW

IMPORTANT SPECIES

percent) compared with 1995. The average exvessel price per pound of meats was 60 cents in 1996, down 2 cents from 1995.

The ocean quahog fishery produced 46.5 million pounds of meats valued at \$20.6 million—a decrease of 2.5 million pounds (5 percent) and \$162,000 (1 percent) compared with 1995. New Jersey had landings of 17.8 million pounds (down 18 percent) valued at \$7.3 million (down 15 percent) while Massachusetts production was 17.5 million pounds (up 20 percent) valued at \$7.3 million (up 23 percent). Together, they accounted for 76 percent of the total ocean quahog production in 1996. The average exvessel price per pound of meats increased from 42 cents in 1995 to 44 cents in 1996.

The hard clam fishery produced 10.0 million pounds of meats valued at \$49.3 million—a decrease of 7.8 million pounds (44 percent) and \$18.1 million (27 percent) compared with 1995. Landings in the New England region were 1.5 million pounds of meats (down 52 percent); Middle Atlantic region, 4.6 million pounds (up 11 percent); Chesapeake region, 796,000 pounds (down 14 percent); and the South Atlantic region, 1.8 million pounds (up 64 percent). The average exvessel price per pound of meats increased from \$3.78 in 1995 to \$4.94 in 1996.

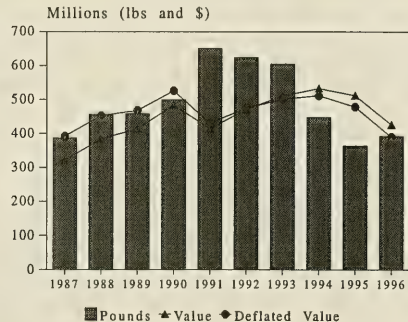
Soft clams yielded 2.2 million pounds of meats valued at \$8.3 million—a decrease of 234,000 pounds (10 percent) and \$2.9 million (26 percent) compared with 1995. Maine was the leading state with 1.6 million pounds of meats (down 16 percent) followed by Maryland with 319,000 pounds (down 13 percent) and New York with 205,000 pounds (up 26 percent). The average exvessel price per pound of meats was \$3.75 in 1996, compared with \$4.57 in 1995.

CRABS. Landings of all species of crabs were 391.8 million pounds valued at \$426.7 million—an increase of 28.2 million pounds (8 percent), but a decrease of \$85.3 million (17 percent) compared with 1995.

Hard blue crab landings were 219.0 million pounds valued at \$147.1 million—an increase of 17.4 million pounds (9 percent) and \$2.4 million (2 percent) compared with 1995. North Carolina landed

32 percent of the total; Louisiana, 17 percent; Maryland, 16 percent; and Virginia, 15 percent of the total U.S. landings. Hard blue crab landings in the Chesapeake region were 68.3 million pounds—a decrease of 4 percent; Gulf region, 56.9 million, increased 20 percent; and the South Atlantic region with 86.6 million pounds, increased 30 percent. The Middle Atlantic region with 7.2 million pounds valued at \$5.0 million showed a decrease of 8.9 million pounds (55 percent) compared with 1995. The average exvessel price per pound of hard blue crabs was 67 cents in 1996, five cents less than 1995.

Trend in Commercial Landings, 1987-1996
Crabs



Dungeness crab landings were 65.0 million pounds valued at \$87.9 million—an increase of 17.2 million pounds (36 percent) and \$8.3 million (10 percent) compared with 1995. Washington landings of 27.5 million pounds (up 29 percent) led all states with 42 percent of the total landings. Alaska landings were 5.9 million pounds, up 8 percent compared with 1995. Oregon landings were 19.3 million pounds (up 62 percent) and California landings were 12.3 million pounds (up 34 percent) compared with 1995. The average exvessel price per pound was \$1.35 in 1996 compared with \$1.66 in 1995.

U.S. landings of king crab were 21.0 million pounds valued at \$62.6 million—an increase of 6.3 million pounds (43 percent) compared with 1995. The average exvessel price per pound in 1996 was \$2.98 compared with \$3.10 in 1995.

REVIEW

IMPORTANT SPECIES

Snow (tanner) crab landings were 67.9 million pounds valued at \$93.2 million—a decrease of 13.0 million pounds (16 percent) and \$109.1 million (54 percent) compared with 1995. The average exvessel price per pound was \$1.37 in 1996, down from \$2.50 in 1995.

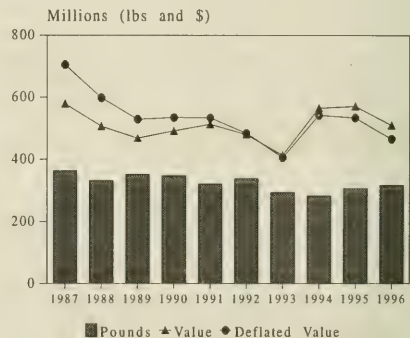
LOBSTER, AMERICAN. American lobster landings were 71.6 million pounds valued at \$241.8 million—an increase of 5.2 million pounds (8 percent), and \$27.0 million (13 percent) compared with 1995. Maine led in landings for the fifteenth consecutive year with 36.0 million pounds valued at \$106.8 million—a decrease of 504,000 pounds (less than 1 percent) compared with 1995. Massachusetts, the second leading producer, had landings of 15.7 million pounds valued at \$64.7 million—a decrease of 63,000 pounds (less than 1 percent) compared with 1995. Together, Maine and Massachusetts produced 72 percent of the total national landings. The average exvessel price per pound was \$3.38 in 1996 compared with \$3.24 in 1995.

LOBSTERS, SPINY. U.S. landings of spiny lobster were 8.3 million pounds valued at \$35.2 million—an increase of 1.2 million pounds (17 percent)—and \$1.1 million (3 percent) compared with 1995. Florida, with landings of 7.4 million pounds valued at \$28.6 million, accounted for 90 percent of the total catch and 81 percent of the value. This was an increase of 1.0 million pounds (15 percent), but a decrease of \$504,000 (62 percent) compared with 1995. Overall the average exvessel price per pound was \$4.24 in 1996 compared with \$4.80 in 1995.

OYSTERS. U.S. oyster landings yielded 38.0 million pounds of meats valued at \$114.8 million—a decrease of 2.4 million pounds (6 percent) and an increase of \$13.3 million (13 percent) compared with 1995. The Gulf region led in production with 21.6 million pounds of meats, 57 percent of the national total; followed by the Pacific region (principally Washington with 82 percent of the region's total volume) with 9.7 million pounds (26 percent), and the New England region, with 4.1 million pounds (11 percent). The average exvessel price per pound of meats was \$3.02 in 1996 compared with \$2.52 in 1995.

SHRIMP. U.S. landings of shrimp were 316.9 million pounds valued at \$509.2 million—an increase of 10.0 million pounds (3 percent), but a decrease of \$60.8 million (11 percent) compared with 1995. Shrimp landings increased in the South Atlantic (up 3 percent) and New England (up 46 percent), but declined by 1 percent in the Gulf. The landings in the Pacific increased 11 percent when compared with 1995. The average exvessel price per pound of shrimp decreased to \$1.61 in 1996 compared with \$1.86 in 1995. Gulf region landings were the nation's largest with 218.6 million pounds, and 69 percent of the national total. Louisiana led all Gulf states with 90.6 million pounds (up 3 percent), followed by Texas, 75.9 million pounds (down 1 percent); Florida (West Coast), 25.6 million pounds (up 36 percent);

Trend in Commercial Landings, 1987-1996
Shrimp



Alabama, 16.6 million pounds (down 19 percent); and Mississippi, 9.9 million pounds (down 36 percent). In the Pacific region Oregon had landings of 15.7 million pounds (up 30 percent), California had 11.7 pounds (up 53 percent, and Washington landings of 6.8 million pounds (down 21 percent) compared with 1995.

SCALLOPS. U.S. landings of bay and sea scallops totaled 18.2 million pounds of meats valued at \$101.9 million—a decrease of 372,000 pounds (2 percent), but an increase of \$8.6 million (9 percent)

REVIEW

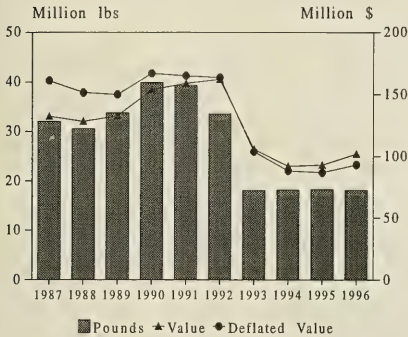
IMPORTANT SPECIES

compared with 1995. The average exvessel price per pound of meats increased from \$5.03 in 1995 to \$5.60 in 1996.

Bay scallop landings were 35,000 pounds of meats valued at \$94,000—a decrease of 218,000 pounds (86 percent) and \$444,000 (83 percent) compared with 1995. The average exvessel price per pound of meats was \$2.68 in 1996 compared with \$2.13 in 1995.

Seascallop landings were 18.2 million pounds of meats valued at \$101.8 million—a decrease of 154,000 pound (1 percent), but an increase of \$9.0 million (10 percent) compared with 1995. Massachusetts and Virginia were the leading states in landings of sea scallops with 8.6 and 5.0 million pounds of meats, respectively. These represent 75 percent of the national total. The average exvessel price per pound of meats in 1996 was \$5.61 compared with \$5.07 in 1995.

Trend in Commercial Landings, 1987-1996
Atlantic Sea Scallops



There were no reported commercial landings of calico scallops in 1996.

SQUID. U.S. commercial landings of squid were 240.0 million pounds valued at \$60.2 million—an increase of 10.5 million pounds (5 percent) and \$4.3 million (8 percent) compared with 1995. California was the leading state with 173.7 million pounds, 72 percent of the national total. The Pacific region landings were 174.8 million pounds (up 13 percent), followed by the New England region, 34.0 million pounds (down 4 percent); the Middle Atlantic region, 29.9 million pounds (down 19 percent); and the Chesapeake Region, 1.0 million pounds (up 7 percent) compared with 1995. The average exvessel price per pound for squid was 25 cents in 1996, compared with 24 cents in 1995.



REVIEW

PER CAPITA CONSUMPTION

The NMFS calculation of per capita consumption is based on a "disappearance" model. The total U.S. supply of imports and landings is converted to edible weight and decreases in supply such as exports and inventories are subtracted out. The remaining total is divided by a population value to estimate per capita consumption. Data for the model are derived primarily from secondary sources and are subject to incomplete reporting; changes in source data or invalid model assumptions may each have a significant effect on the resulting calculation.

U.S. per capita consumption of fish and shellfish was 14.8 pounds (edible meat) in 1996. This total was 0.2 pounds less than the 15.0 pounds consumed in 1995. Per capita consumption of fresh and frozen products was 10.0 pounds, the same as in 1995. Fresh and frozen finfish

accounted for 6.4 pounds while fresh and frozen shellfish consumption was 3.6 pounds per capita. The fresh and frozen finfish includes approximately 0.9 pounds of farm raised catfish. Consumption of canned fishery products was 4.5 pounds per capita in 1996, a decrease of 0.2 pounds from 1995. Cured fish accounted for 0.3 pounds per capita, the same as in previous years. Imports of edible seafood made up 57 percent of the consumption.

Per Capita Use. Per capita use is based on the supply of fishery products, both edible and non-edible (industrial), on a round-weight equivalent basis without considering beginning or ending stocks, defense purchases, or exports. The per capita use of all edible and industrial fishery products in 1996 was 62.1 pounds, down 0.6 pounds compared with 1995.



REVIEW

PROCESSED FISHERY PRODUCTS

FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 1996 the U.S. production of raw (uncooked) fish fillets and steaks, including blocks, was 398.0 million pounds--12.7 million pounds more than the 385.3 million pounds in 1995. These fillets and steaks were valued at \$885.7 million--\$44.7 million more than 1995. Alaska pollock fillets and blocks led all species with 136.4 million pounds--32 percent of the total. Production of groundfish fillets and steaks (see Glossary Section-Groundfish) was 220.0 million pounds compared with 216.7 million pounds in 1995.

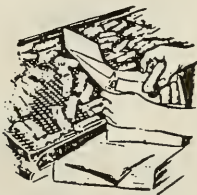
FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 279.2 million pounds valued at \$362.3 million compared with the 1995 production of 325.3 million pounds valued at \$430.0 million--a decrease of 46.1 million pounds and \$67.7 million.

The total production of fish sticks amounted to 65.2 million pounds valued at \$55.8 million--a decrease of 8.8 million pounds and \$17.7 million compared with 1995. The total production of fish portions amounted to 214.0 million pounds valued at \$306.5 million -- a

decrease of 37.3 million pounds and \$50.0 million compared with 1995.

BREADED SHRIMP. The production of breaded shrimp in 1996 was 108.5 million pounds valued at \$341.8 million, compared with the 1995 production of 100.5 million pounds valued at \$299.4 million.

FROZEN FISHERY TRADE. In 1996, stocks of frozen fishery products in cold storage were at a low of 293.5 million pounds on June 30 and a high of 374.3 million pounds on January 31. Cold storage holdings of shrimp products were at a high of 43.9 million pounds on December 31 and a low of 27.5 million pounds on May 31. Holdings of saltwater fillets and steaks reached a high of 78.5 million pounds on January 31 and were at a low of 57.7 million pounds on September 30. Holdings of blocks and slabs were at a high of 60.5 million pounds on December 31 and a low of 32.1 million pounds on February 28. Surimi and analog product holdings reached a high of 28.4 million pounds on March 31 and were at a low of 15.7 million pounds on August 31.



REVIEW

PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS. The pack of canned fishery products in the 50 states, American Samoa, and Puerto Rico was 2.3 billion pounds valued at \$1.9 billion—an increase of 354.9 million pounds, and \$46.9 million compared with the 1995 pack. The 1996 pack included 1.1 billion pounds valued at \$1.4 billion for human consumption and 1.2 billion pounds valued at \$505.1 million for bait and animal food.

CANNED SALMON. The 1996 U.S. pack of salmon was 197.2 million pounds valued at \$284.3 million, compared with 243.6 million pounds valued at \$419.2 million packed in 1995. Alaskan plants accounted for 96 percent in quantity and 95 percent in value of the salmon pack.

CANNED SARDINES. The pack of Maine sardines (small herring) was 17.7 million pounds valued at \$29.9 million, an increase of 4.1 million pounds and \$6.2 million compared with 1995. There were 6.2 million pounds of herring valued at \$10.8 million packed in 1996 -- 605,000 pounds and \$1.2 million less than the 1995 pack.

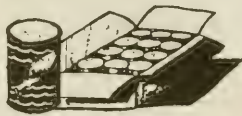
CANNED TUNA. The U.S. pack of tuna was 675.8 million pounds valued at \$956.9 million—an increase of 9.2 million pounds in quantity and \$18.4 million in value compared with the 1995 pack. The pack of albacore tuna was 165.6

million pounds —1.3 million pounds more than the 64.4 million pounds produced in 1995. Albacore tuna comprised 25 percent of the tuna pack in 1996. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 510.2 million pounds —8.0 million pounds more than the 502.2 million pounds packed in 1995.

CANNED CLAMS. The 1996 U.S. pack of clams (whole, minced, chowder, juice, and specialties) was 129.4 million pounds valued at \$117.3 million—an increase of 147,000 pounds and \$4.2 million more in value than the pack in 1995. The pack of whole and minced clams was 45.9 million pounds—2.9 million pounds more than the 1995 pack and accounted for 35 percent of the total clam pack. Clam chowder and clam juice was 71.6 million pounds and made up the majority of the pack.

CANNED SHRIMP. The U.S. pack of natural shrimp was 819,000 pounds valued at \$6.1 million—a decrease of 93,000 pounds and \$588,000 in value compared with the 1995 pack.

OTHER CANNED ITEMS. The pack of pet food was 1.2 billion pounds valued at \$505.1 million—an increase of 386.8 million pounds compared with the 1995 pack.



REVIEW

PROCESSED FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS. The value of the domestic production of industrial fishery products was \$277.8 million—an increase of \$31.2 million compared with the 1995 value of \$246.5 million.

FISH MEAL. The domestic production of fish and shellfish meal was 638.5 million pounds valued at \$142.2 million—a decrease of 28.7 million pounds, but an increase of \$20.0 million compared with 1995. Menhaden meal production was 418.9 million pounds valued at \$87.1 million—a decrease of 31.6 million pounds, but an increase of \$4.6 million compared with 1995. Menhaden accounted for 66 percent of the 1996 production of meal. Shellfish meal production was 17.6 million pounds—an increase of 1.2 million pounds from the 1995 level. Tuna and mackerel meal production was 52.3 million pounds—a decrease of 12.3 million pounds from 1995. Production of unclassified meal (consisting mainly of Alaska pollock and unclassified fish) was 149.8 million pounds—an increase of 14.0 million pounds compared with 1995.

FISH SOLUBLES. Domestic production of fish solubles was 82.0 million pounds, 7.5 million pounds less than the 1995 production.

FISH OILS. The domestic production of fish oils was 248.4 million pounds valued at \$43.9 million—an increase of 6.5 million pounds, and \$1.7 million in value compared with 1995 production. The production of menhaden oil was 246.5 million pounds valued at \$43.7 million—an increase of 8.4 million pounds, and \$1.8 million compared with 1995. Menhaden oil accounted for 99 percent of the volume and value of the total 1996 fish oil production.

OTHER INDUSTRIAL PRODUCTS. Oyster shell products, together with agar-agar, animal feeds, crab and clam shells processed for food serving, fish pellets, Irish moss extracts, kelp products, dry and liquid fertilizers, pearl essence, and mussel shell buttons were valued at \$85.6 million, compared with \$74.3 million in 1995—an increase of \$11.3 million.



REVIEW

FOREIGN TRADE IN FISHERY PRODUCTS

IMPORTS. U.S. imports of edible fishery products in 1996 were valued at \$6.7 billion, \$62.1 million less than in 1995. The quantity of edible imports was 3.2 billion pounds, 103.3 million pounds more than the quantity imported in 1995.

Edible imports consisted of 2.7 billion pounds of fresh and frozen products valued at \$6.0 billion, 354.4 million pounds of canned products valued at \$473.7 million, 67.4 million pounds of cured products valued at \$131.7 million, 5.1 million pounds of caviar and roe products valued at \$35.3 million, and 16.0 million pounds of other products valued at \$45.2 million.

The quantity of shrimp imported in 1996 was 582.5 million pounds, 14.7 million pounds less than the quantity imported in 1995. Valued at \$2.5 billion, shrimp imports accounted for 36 percent of the value of total edible imports. Imports of fresh and frozen tuna were 528.7 million pounds, 32.8 million pounds more than the 495.9 million pounds imported in 1995. Imports of canned tuna were 193.0 million pounds, 22.3 million pounds less than in 1995. Imports of fresh and frozen fillets and steaks amounted to 476.5 million pounds, a decrease of 1.0 million pounds from 1995. Regular and minced block imports were 234.2 million pounds, an increase of 23.9 million pounds from 1995.

Imports of nonedible fishery products were valued at \$6.3 billion—an increase of \$670.8 million

compared with 1995. The total value of edible and nonedible products was \$13.1 billion in 1996, \$608.7 million more than in 1995 when \$12.4 billion of fishery products were imported.

EXPORTS. U.S. exports of edible fishery products were 2.1 billion pounds valued at \$3.0 billion, an increase of 64.9 million pounds, but a decrease of \$230.0 million when compared with 1995. Fresh and frozen items were 1.8 billion pounds valued at \$2.3 billion, an increase of 35.1 million pounds, but a decrease of \$193.7 million compared with 1995. In terms of individual species, fresh and frozen exports consisted principally of 277.0 million pounds of salmon valued at \$469.8 million, 284.7 million pounds of surimi valued at \$269.8 million and 46.7 million pounds of crabs valued at \$162.4 million. Canned items were 155.4 million pounds valued at \$223.8 million. Salmon was the major canned item exported, with 95.5 million pounds valued at \$154.1 million. Cured items were 23.2 million pounds valued at \$41.9 million. Caviar and roe exports were 110.9 million pounds valued at \$450.9 million.

Exports of nonedible products were valued at \$5.6 billion compared with \$5.0 billion in 1995. Exports of fishmeal amounted to 186.4 million pounds valued at \$52.9 million. The total value of edible and nonedible exports was \$8.7 billion—an increase of \$385.3 million compared with 1995.



U.S. COMMERCIAL LANDINGS

1

U.S. DOMESTIC LANDINGS, BY SPECIES, 1995 AND 1996 (1)

Species Fish	1995			1996			Average (1991-95)
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Alewives.....	854	387	111	975	442	198	2,237
Anchovies.....	6,788	3,079	1,193	9,933	4,506	988	11,566
Bluefish.....	8,379	3,801	2,855	9,356	4,244	3,166	10,721
Bonito.....	624	283	267	1,339	607	425	2,012
Butterfish.....	6,430	2,917	3,186	9,685	4,393	5,847	8,181
Cod:							
Atlantic.....	29,631	13,441	28,184	31,422	14,253	26,634	54,541
Pacific.....	591,399	268,257	109,680	605,314	274,569	111,978	527,746
Croaker.....	16,027	7,270	5,855	20,483	9,291	7,386	9,340
Cusk.....	1,702	772	1,033	1,031	468	664	2,804
Flounders:							
Atlantic and Gulf:							
Blackback.....	8,823	4,002	12,661	12,537	5,687	15,421	11,743
Fluke.....	19,553	8,869	34,763	16,793	7,617	28,027	18,532
Yellowtail.....	4,149	1,882	5,887	5,297	2,403	7,639	9,694
Other.....	18,060	8,192	23,933	14,862	6,741	20,926	22,220
Pacific.....	372,858	169,127	72,995	410,038	185,992	82,036	437,849
Total.....	423,443	192,072	150,239	459,527	208,440	154,049	500,038
Groupers.....	10,491	4,759	22,605	9,703	4,401	22,409	11,716
Haddock.....	877	398	1,207	1,257	570	1,494	2,541
Hake:							
Pacific (whiting).....	390,302	177,040	18,002	430,537	195,290	17,031	287,480
Red.....	3,543	1,607	996	2,397	1,087	695	3,873
White.....	9,434	4,279	6,111	7,252	3,289	4,553	13,851
Halibut.....	44,796	20,319	66,781	49,092	22,268	83,468	60,133
Herring, sea:							
Atlantic.....	147,181	66,761	8,654	197,124	89,415	11,194	117,577
Pacific.....	117,479	53,288	49,245	120,434	54,629	69,747	123,817
Jack mackerel.....	4,132	1,874	279	4,798	2,176	296	4,137
Lingcod.....	3,736	1,695	1,782	4,972	2,255	2,277	5,433
Mackerel:							
Atlantic.....	18,727	8,495	2,759	34,801	15,786	4,624	22,328
Chub.....	18,974	8,607	1,130	21,994	9,976	1,336	14,788
King.....	4,519	2,050	6,060	4,560	2,068	5,880	23,918
Spanish.....	4,896	2,221	2,162	3,406	1,545	1,778	5,452
Menhaden:							
Atlantic.....	806,302	365,736	47,247	671,664	304,665	39,677	731,540
Gulf.....	1,040,657	472,039	51,884	1,083,807	491,612	54,473	1,223,503
Total.....	1,846,959	837,775	99,131	1,755,471	796,276	94,150	1,955,043
Mulletts.....	22,249	10,092	14,725	17,026	7,723	12,518	27,111
Ocean perch:							
Atlantic.....	962	436	608	720	327	477	1,347
Pacific.....	34,420	15,613	4,660	46,305	21,004	6,171	37,257
Pollock:							
Atlantic.....	7,152	3,244	6,602	6,529	2,962	4,543	12,215
Alaska.....	2,852,618	1,293,939	259,614	2,623,131	1,189,844	238,129	3,008,517
Rockfishes.....	90,119	40,878	41,125	94,760	42,983	39,049	105,004
Sablefish.....	65,904	29,894	123,694	59,949	27,193	109,009	74,754
Salmon, Pacific:							
Chinook or king.....	24,733	11,219	34,439	20,463	9,282	23,470	20,044
Chum or keta.....	152,496	69,172	45,345	180,573	81,907	29,442	131,958
Pink.....	444,667	201,700	67,522	309,839	140,542	26,723	343,907
Red or sockeye.....	349,690	158,618	312,294	318,443	144,445	266,422	332,960
Silver or coho.....	49,179	22,307	26,507	47,738	21,654	22,672	56,281
Total.....	1,020,765	463,016	486,107	877,056	397,830	368,729	885,149
Sardine, Pacific.....	93,619	42,465	5,083	71,657	32,503	3,053	42,525
Scup or porgy.....	7,221	3,275	6,646	6,895	3,128	7,330	11,596
Sea bass:							
Black.....	2,860	1,297	3,739	4,361	1,978	4,751	3,775
White.....	72	33	161	101	46	193	106
Sea trout:							
Gray.....	6,824	3,095	4,124	7,189	3,261	4,839	7,218
Spotted.....	1,859	843	2,195	1,066	484	1,155	2,359
White.....	201	91	121	168	76	94	285
Sharks:							
Dogfish.....	52,980	24,032	9,516	65,342	29,639	11,804	45,335
Other.....	14,165	6,425	10,534	15,345	6,960	10,824	15,070

See notes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY SPECIES, 1995 AND 1996 (1) - Continued

Species	1995			1996			Average (1991-95)
Fish - Continued:	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Snapper:							
Red.....	3,645	1,653	8,356	4,422	2,006	9,529	3,353
Other.....	5,951	2,699	12,223	5,235	2,375	10,155	7,240
Striped bass.....	3,624	1,644	5,584	4,712	2,137	8,021	1,791
Swordfish.....	13,043	5,916	37,270	12,879	5,842	36,494	17,586
Tilefish.....	2,832	1,285	5,002	3,226	1,463	5,356	4,303
Tuna:							
Albacore.....	17,208	7,805	14,284	34,053	15,446	30,157	14,820
Bigeye.....	6,787	3,079	25,613	6,254	2,837	23,673	5,965
Bluefin.....	3,414	1,549	25,639	12,148	5,510	21,857	3,542
Skipjack.....	17,047	7,732	6,808	14,717	6,676	7,084	10,308
Yellowfin.....	18,553	8,416	29,835	17,484	7,931	27,060	20,695
Unclassified.....	855	388	459	783	355	425	1,379
Total.....	63,864	28,969	102,638	85,439	38,755	110,256	56,710
Whiting.....	33,548	15,217	14,632	35,400	16,057	13,494	35,466
Other marine finfishes.....	378,834	171,838	139,763	401,778	182,245	125,294	--
Other freshwater finfishes.....	29,432	13,350	21,413	25,155	11,410	17,432	--
Total, fish....	8,520,086	3,864,686	1,915,642	8,272,709	3,752,476	1,790,966	--
Shellfish, et al.							
Clams:							
Hard.....	17,812	8,079	67,405	9,990	4,531	49,346	13,915
Ocean quahog.....	49,006	22,229	20,714	46,460	21,074	20,552	49,348
Soft.....	2,434	1,104	11,112	2,200	998	8,253	3,567
Surf.....	63,345	28,733	39,035	63,438	28,775	38,220	69,302
Other.....	1,627	738	2,148	1,151	522	11,428	1,888
Total.....	134,224	60,884	140,414	123,239	55,901	127,799	138,019
Crabs:							
Blue, hard.....	201,545	91,420	144,668	218,960	99,320	147,061	214,925
Dungeness.....	47,830	21,696	79,562	64,988	29,478	87,858	42,658
King.....	14,673	6,656	45,457	21,000	9,526	62,560	19,712
Snow (tanner).....	80,817	36,658	202,392	67,867	30,784	93,249	240,657
Other.....	18,774	8,516	39,908	18,982	8,610	35,977	19,914
Total.....	363,639	164,946	511,987	391,797	177,718	426,705	537,867
Lobsters:							
American.....	66,406	30,122	214,838	71,641	32,496	241,796	61,703
Spiny.....	7,123	3,231	34,176	8,308	3,768	35,227	6,654
Oysters.....	40,380	18,316	101,574	38,007	17,240	114,839	36,011
Scallops							
Bay.....	253	115	538	35	16	94	330
Calico.....	957	434	1,219	--	0	--	--
Sea.....	18,316	8,308	92,826	18,162	8,238	101,823	25,498
Shrimp:							
New England.....	14,383	6,524	12,803	20,978	9,516	15,162	8,491
South Atlantic.....	39,369	17,858	91,131	40,437	18,342	66,366	31,222
Gulf.....	219,823	99,711	437,444	218,559	99,138	401,354	216,679
Pacific.....	33,241	15,078	28,387	36,867	16,723	26,155	51,626
Other.....	53	24	269	38	17	166	--
Total.....	306,869	139,195	570,034	316,879	143,735	509,203	308,047
Squid:							
Atlantic.....	74,248	33,679	33,269	65,248	29,596	28,514	82,264
Pacific.....	155,280	70,435	22,660	174,785	79,282	31,712	89,660
Other shellfish.....	99,773	45,257	96,438	84,078	38,138	78,035	--
Total, shellfish et al.....	1,267,468	574,920	1,819,973	1,292,179	586,129	1,695,747	--
Grand total.....	9,787,554	4,439,605	3,735,615	9,564,888	4,338,605	3,486,713	--

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River Drainage area States are not available.

Note:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels transferred to internal water processing vessels (IWP) U.S. waters. Data do not include aquaculture products, except oysters and clams.

U.S. COMMERCIAL LANDINGS

3

DISPOSITION OF U.S. DOMESTIC LANDINGS, 1995 AND 1996

End Use	1995		1996	
	Million pounds	Percent	Million pounds	Percent
Fresh and frozen:				
For human food.....	6,871	70.2	6,752	995.9
For bait and animal food.....	228	2.3	302	3.2
Total.....	7,099	72.5	7,054	73.7
Canned:				
For human food.....	706	7.2	629	6.6
For bait and animal food.....	63	0.6	49	0.5
Total.....	769	7.9	678	7.1
Cured for human food.....	90	0.9	93	1.0
Reduction to meal, oil, etc.....	1,830	18.7	1,740	18.2
Grand total.....	9,788	100.0	9,565	100.0

NOTE:--Data are preliminary. Table may not add due to rounding.

DISPOSITION OF U.S. DOMESTIC LANDINGS, BY MONTH, 1996

Month	Landings for Human food		Landings for Industrial purposes (1)		Total	
	Million pounds	Percent	Million pounds	Percent	Million pounds	Percent
January.....	381	5.1	26	1.2	407	4.3
February.....	1,053	14.1	18	0.9	1,071	11.2
March.....	626	8.4	26	1.2	652	6.8
April.....	460	6.2	95	4.5	555	5.8
May.....	616	8.2	258	12.3	874	9.1
June.....	515	6.9	334	16.0	849	8.9
July.....	721	9.6	233	11.1	954	10.0
August.....	775	10.4	327	15.6	1,102	11.5
September.....	1,011	13.5	374	17.9	1,385	14.5
October.....	768	10.3	213	10.2	981	10.3
November.....	302	4.0	138	6.6	440	4.6
December.....	247	3.3	48	2.3	295	3.1
Total.....	7,475	100.0	2,090	100.0	9,565	100.0

(1) Processed into meal, oil, solubles, and shell products, or used as bait and animal food.

U.S. COMMERCIAL LANDINGS OF FISH AND SHELLFISH, 1987-1996 (1)

Year	Landings for Human food		Landings for Industrial purposes (1)		Total	
	Million pounds	Million dollars	Millions pounds	Million dollars	Millions pounds	Million dollars
1987.....	3,946	2,979	2,950	136	6,896	3,115
1988.....	4,588	3,362	2,604	158	7,192	3,520
1989.....	6,204	3,111	2,259	127	8,463	3,238
1990.....	7,041	3,366	2,363	156	9,404	3,522
1991.....	7,031	3,169	2,453	139	9,484	3,308
1992.....	7,618	3,531	2,019	147	9,637	3,678
1993.....	*8,214	3,317	2,253	154	10,467	3,471
1994.....	7,936	3,714	2,525	95	10,461	3,809
1995.....	7,667	3,625	2,121	145	9,788	3,770
1996.....	7,475	3,355	2,090	132	9,565	3,487

(1) Statistics on landings are shown in round weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are shown in weight of meats (excluding the shell). All data are preliminary. (2) Processed into meal, oil, solubles, and shell products, or used as bait or animal food. * Record. Record--1983 industrial purposes, 3,201 million lb. NOTE:--Data do not include landings outside the 50 States or products of aquaculture, except oysters and clams.

U.S. DOMESTIC LANDINGS, BY STATES, 1995 AND 1996 (1)

States	1995		1996		Record Landings	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Year	Thousand pounds
Alabama.....	28,741	49,656	26,579	38,342	1973	36,744
Alaska.....	5,293,445	1,396,974	5,012,875	1,190,576	1993	5,905,638
California.....	432,520	166,522	460,681	187,461	1936	1,760,193
Connecticut.....	21,914	56,705	20,949	48,409	1930	88,012
Delaware.....	10,108	7,858	5,958	4,397	1953	367,500
Florida.....	133,483	198,067	134,038	205,203	1938	241,443
Georgia.....	20,341	35,268	13,117	21,114	1927	47,607
Hawaii.....	29,892	59,847	31,870	64,288	1993	34,582
Illinois.....	235	444	202	415	-	(2)
Indiana.....	1,025	2,225	303	736	-	(2)
Louisiana.....	1,110,220	290,576	1,130,639	267,286	1984	1,931,027
Maine.....	231,804	216,546	236,567	200,930	1950	356,266
Maryland.....	68,030	60,570	69,179	52,720	1890	141,607
Massachusetts.....	204,255	224,361	236,550	231,380	1948	649,696
Michigan.....	14,331	10,143	14,174	9,228	1930	35,580
Minnesota.....	497	236	584	221	-	(2)
Mississippi.....	145,468	41,735	160,283	32,782	1985	439,518
New Hampshire.....	12,763	14,923	11,047	13,531	-	(2)
New Jersey.....	177,177	95,479	179,306	94,026	1956	540,060
New York.....	53,210	76,501	56,732	83,527	1880	335,000
North Carolina.....	184,664	110,884	193,828	110,057	1981	432,006
Ohio.....	4,722	2,639	4,258	1,984	1936	31,083
Oregon.....	238,764	77,766	264,113	84,186	1992	256,912
Pennsylvania.....	506	496	311	274	-	(2)
Rhode Island.....	121,929	68,422	136,708	69,919	1957	142,080
South Carolina.....	24,162	37,669	15,788	24,067	1965	26,611
Texas.....	94,674	198,876	91,593	190,860	1960	237,684
Virginia.....	777,602	113,659	659,651	106,016	1990	786,794
Washington.....	343,038	115,429	391,741	148,285	1994	527,804
Wisconsin.....	8,034	5,139	5,264	4,493	-	(2)
Total.....	9,787,554	3,735,615	9,564,888	3,486,713	-	-

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River Drainage Area States are not available.

(2) Data not available.

NOTE:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels transferred to internal water processing vessels (IWP) in U.S. waters. Data do not include aquaculture products, except oysters and clams.

U.S. DOMESTIC LANDINGS, BY REGIONS, 1995 AND 1996 (1)

Region	1995		1996	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
New England.....	592,665	580,957	641,821	564,169
Middle Atlantic.....	240,413	179,747	241,936	181,869
Chesapeake.....	845,632	174,229	728,830	158,736
South Atlantic.....	277,035	238,112	268,990	209,407
Gulf.....	1,464,718	724,619	1,496,875	680,304
Pacific Coast and Alaska.....	6,307,767	1,756,691	6,129,410	1,610,508
Great Lakes.....	29,432	21,413	25,156	17,432
Hawaii.....	29,892	59,847	31,870	64,288
Total.....	9,787,554	3,735,615	9,564,888	3,486,713

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River Drainage Area States are not available.

NOTE:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels transferred to internal water processing vessels (IWP) in U.S. waters. Data do not include aquaculture products, except oysters and clams.

U.S. COMMERCIAL LANDINGS

5

COMMERCIAL FISHERY LANDINGS AND VALUE AT MAJOR U.S. PORTS, 1994-1996

Port	Quantity			Port	Value		
	1994	1995	1996		1994	1995	1996
	-- Million Pounds --				-- Million Dollars --		
Dutch Harbor, AK.....	699.6	684.6	579.6	Dutch Harbor, AK.....	*224.1	146.2	118.7
Empire-Venice, LA.....	431.7	298.1	316.5	New Bedford, MA.....	82.4	86.9	100.5
Cameron, LA.....	401.8	280.0	315.7	Kodiak, AK.....	107.6	105.4	82.3
Seattle, WA.....	391.8	229.0	241.2	Key West, FL.....	53.0	66.7	62.8
Kodiak, AK.....	307.7	362.4	202.7	Brownsville-Port Isabel, TX.....	64.1	66.0	60.0
Intercoastal City, LA.....	304.8	179.2	199.0	Honolulu, HI.....	44.0	46.7	50.1
Morgan City-Berwick, LA.....	243.6	127.4	162.9	Point Judith, RI.....	36.5	43.7	46.0
Los Angeles, CA.....	98.2	168.5	157.6	Empire-Venice, LA.....	60.1	51.1	45.4
Pascagoula-Moss Point, MS.....	200.9	128.6	148.0	Dulac-Chauvin, LA.....	55.0	53.4	45.2
Ketchikan, AK.....	93.6	116.7	136.8	Portland, ME.....	43.6	39.4	38.6
Port Hueneme-Oxnard-Ventura, CA.....	68.3	116.8	134.5	Galveston, TX.....	26.3	38.0	37.0
Newport, OR.....	122.2	112.0	115.0	Los Angeles, CA.....	24.5	27.0	36.8
Astoria, OR.....	78.9	89.0	107.0	Petersburg, AK.....	43.4	44.8	36.4
Petersburg, AK.....	126.3	83.0	105.0	Port Hueneme-Oxnard-Ventura, CA.....	26.7	26.8	33.6
Cape May-Wildwood, NJ.....	85.3	75.4	82.7	Sitka, AK.....	24.3	32.4	33.0
Point Judith, RI.....	61.9	89.6	79.0	Kenai, AK.....	35.0	25.3	31.6
Portland, ME.....	63.9	66.7	78.3	Westport, WA.....	21.0	25.0	31.0
Beaufort-Morehead City, NC.....	97.0	87.0	75.4	Cape May-Wildwood, NJ.....	33.8	30.5	30.9
New Bedford, MA.....	65.8	70.5	66.0	Cameron, LA.....	33.9	27.8	30.6
Gloucester, MA.....	50.1	61.3	63.8	Bayou La Batre, AL.....	36.7	37.5	28.6
Gordova, AK.....	60.8	42.5	55.4	Astoria, OR.....	18.6	26.0	28.0
Rockland, ME.....	33.8	44.5	52.7	Cordova, AK.....	23.6	24.9	27.8
Westport, WA.....	27.0	24.0	45.6	Port Arthur, TX.....	23.1	22.0	27.0
Wanchese-Stumpy Point, NC.....	39.0	39.0	43.4	Seward, AK.....	16.6	24.3	25.5
Valdez, AK.....	9.5	29.5	41.6	Palacios, TX.....	24.5	21.0	25.0
Atlantic City, NJ.....	42.8	42.3	40.9	Newport, OR.....	19.0	22.0	25.0
Dulac-Chauvin, LA.....	217.0	123.3	38.3	Wanchese-Stumpy Point, NC.....	22.0	25.0	24.6
Kenai, AK.....	44.3	35.0	37.9	Aransas Pass-Rockport, TX.....	29.3	33.0	24.0
Sitka, AK.....	32.4	31.0	32.0	Hampton Roads Area, VA.....	26.2	26.6	23.7
Seward, AK.....	30.7	24.4	29.2	Ketchikan, AK.....	29.1	33.6	23.7
Crescent City, CA.....	28.4	21.8	26.3	Golden Meadow-Leeville, LA.....	30.1	31.3	22.1
Moss Landings, CA.....	14.3	13.4	25.3	Atlantic City, NJ.....	20.9	22.2	21.6
Wrangell, AK.....	18.4	17.2	25.1	Seattle, WA.....	21.6	20.3	20.6
Monterey, CA.....	27.6	18.6	24.9	Beaufort-Morehead City, NC.....	24.0	35.0	20.3
Coos Bay-Charleston, OR.....	24.0	21.0	24.0	San Francisco Area, CA.....	7.4	15.4	20.3
Ilwaco-Chinook, WA.....	24.0	18.0	23.9	Tampa Bay-St. Petersburg, FL.....	20.9	18.2	20.0
Key West, FL.....	21.5	23.4	23.7	Fort Myers, FL.....	23.5	15.9	19.3
Honolulu, HI.....	19.1	22.1	23.6	Homer, AK.....	17.4	16.3	18.9
Point Pleasant, NJ.....	37.0	22.7	22.1	Gloucester, MA.....	27.3	23.2	18.4
Brownsville-Port Isabel, TX.....	21.0	16.0	22.0	Gulfport, MS.....	18.2	23.3	18.2
Homer, AK.....	19.2	23.3	21.8	Grand Isle, LA.....	12.1	17.8	18.1
Bellingham, WA.....	27.0	27.0	21.4	Cape Canaveral, FL.....	30.6	16.9	17.7
Cape Canaveral, FL.....	19.5	10.1	21.2	Crescent City, CA.....	18.4	11.5	16.8
Galveston, TX.....	12.4	17.0	21.0	Delcambre, LA.....	18.9	15.5	16.4
Bayou La Batre, AL.....	18.3	22.1	20.4	Coos Bay-Charleston, OR.....	13.4	14.0	16.0
San Francisco Area, CA.....	10.9	15.7	19.1	Morgan City-Berwick, LA.....	20.0	11.3	14.2
Eureka, CA.....	18.4	15.1	18.0	Apalachicola, FL.....	22.4	10.2	14.1
Newport, RI.....	12.1	13.2	18.0	Bellingham, WA.....	17.0	15.0	14.0
Provincetown-Chatham, MA.....	18.6	18.4	15.2	Freeport, TX.....	19.6	15.0	14.0
Englehard-Swanquarter, NC.....	14.0	11.0	15.0	Oriental-Vandemere, NC.....	10.0	10.0	13.3
Belhaven-Washington, NC.....	11.0	10.0	14.2	Point Pleasant, NJ.....	15.3	11.8	13.1
Golden Meadow-Leeville, LA.....	17.2	18.7	14.1	Shelton, WA.....	10.0	12.0	12.9
Oriental-Vandemere, NC.....	10.0	9.0	14.0	Ilwaco-Chinook, WA.....	11.0	10.0	12.3
Grand Isle, LA.....	9.6	12.6	13.9	Eureka, CA.....	13.0	10.3	12.3
Aransas Pass-Rockport, TX.....	13.0	12.0	13.0	Newport, RI.....	12.1	11.4	12.0
Brookings, OR.....	10.6	6.0	13.0	Valdez, AK.....	2.3	10.7	11.8
Blaine, WA.....	16.0	12.0	12.3	Poulsbo, WA.....	(1)	6.0	11.6
Port Arthur, TX.....	8.7	6.0	12.0	Belhaven-Washington, NC.....	7.0	6.0	11.5
Anacortes-La Conner, WA.....	7.0	12.0	12.0	Intercoastal City, LA.....	16.3	10.1	11.1
Hampton Roads Area, VA.....	10.8	12.6	11.9	Brookings, OR.....	7.0	5.0	11.0

(1) Not available

* Record value landed: 1960 record quantity of 848.2 million lb in Los Angeles, CA.

Notes:--To avoid disclosure of private enterprise certain leading ports have not been included. Seattle landings include fish caught by at-sea processing vessels.

U.S. COMMERCIAL LANDINGS

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1996 (1)

Species	Distance caught off U.S. Shores				International Waters (Includes catch off foreign coasts)				Total	
	0 to 3 Miles		3 to 200 Miles		Thousand pounds		Thousand dollars		Thousand pounds	Thousand dollars
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Alewives	975	198	-	-	-	-	-	-	975	198
Anchovies	7,497	757	2,436	231	-	-	-	-	9,933	988
Bluefish	5,188	1,761	4,168	1,405	-	-	-	-	9,356	3,166
Bonito	195	90	1,144	335	-	-	-	-	1,339	425
Butterfish	1,000	558	8,685	5,289	-	-	-	-	9,685	5,847
Cod:										
Atlantic	327	277	31,095	26,357	-	-	-	-	31,422	26,634
Pacific	36,332	6,724	568,982	105,254	-	-	-	-	605,314	111,978
Croaker	14,063	5,102	6,420	2,284	-	-	-	-	20,483	7,386
Cusk	11	7	1,020	657	-	-	-	-	1,031	664
Flounders:										
Atlantic and Gulf:										
Blackback	1,515	1,967	11,022	13,454	-	-	-	-	12,537	15,421
Fluke	6,060	10,764	10,733	17,263	-	-	-	-	16,793	28,027
Yellowtail	139	196	5,158	7,443	-	-	-	-	5,297	7,639
Other	1,373	1,986	13,489	18,940	-	-	-	-	14,862	20,926
Pacific	30,598	7,459	379,440	74,577	-	-	-	-	410,038	82,036
Total	39,685	22,372	419,842	131,677	-	-	-	-	459,527	154,049
Groupers	271	632	9,432	21,777	-	-	-	-	9,703	22,409
Haddock	3	4	1,254	1,490	-	-	-	-	1,257	1,494
Hake:										
Pacific (whiting)	155,588	4,145	274,949	12,886	-	-	-	-	430,537	17,031
Red	110	25	2,287	670	-	-	-	-	2,397	695
White	99	62	7,153	4,491	-	-	-	-	7,252	4,553
Halibut	2,795	4,749	47,226	80,580	9	21	-	-	50,030	85,350
Herring, sea:										
Atlantic	87,684	4,995	141,614	7,765	-	-	-	-	229,298	12,760
Pacific	120,434	69,747	-	-	-	-	-	-	120,434	69,747
Jack mackerel	2,111	130	2,687	166	-	-	-	-	4,798	296
Lingcod	1,186	562	3,786	1,715	-	-	-	-	4,972	2,277
Mackerel:										
Atlantic	1,813	289	33,508	4,387	-	-	-	-	35,321	4,676
Chub	17,755	1,074	4,239	262	-	-	-	-	21,994	1,336
King	563	695	3,997	5,185	-	-	-	-	4,560	5,880
Spanish	1,227	689	2,179	1,089	-	-	-	-	3,406	1,778

See footnotes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

7

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1996 (1) - Continued

Species	Distance caught off U.S. Shores			International Waters (Includes catch off foreign coasts)			Total	
	0 to 3 Miles	3 to 200 Miles	Thousand pounds	Thousand pounds	Thousand dollars	Thousand dollars	Thousand pounds	Thousand dollars
Fish - Continued:								
Menhaden								
Atlantic	92,457	4,919	579,207	34,758	-	-	671,664	39,677
Gulf	371,819	18,764	711,988	35,709	-	-	1,083,807	54,473
Total.	464,276	23,683	1,291,195	70,467	-	-	1,755,471	94,150
Mullet	16,863	12,343	163	175	-	-	17,026	12,518
Ocean perch:								
Atlantic	-	-	720	477	-	-	720	477
Pacific.	2,614	321	43,691	5,850	-	-	46,305	6,171
Pollock:								
Atlantic	43	31	6,486	4,512	-	-	6,529	4,543
Alaska	157,368	14,284	2,465,763	223,845	-	-	2,623,131	238,129
Rockfishes	10,042	4,983	84,718	34,066	-	-	94,760	39,049
Sablefish.	4,425	7,607	55,524	101,402	-	-	59,949	109,009
Salmon:								
Chinook or king.	17,329	19,503	3,134	3,967	-	-	20,463	23,470
Chum or keta	180,555	29,439	18	3	-	-	180,573	29,442
pink	309,834	26,722	5	1	-	-	309,839	26,723
Red or sockeye	318,441	266,419	2	3	-	-	318,443	266,422
Silver or coho	45,643	20,930	2,095	1,742	-	-	47,338	22,672
Total.	871,802	363,013	5,254	5,716	-	-	877,056	368,729
Sardines, Pacific.	50,160	2,137	21,497	916	-	-	71,657	3,053
Scup or porgy.	1,238	1,605	5,657	5,725	-	-	6,895	7,330
Sea bass:								
Black.	269	377	4,092	4,374	-	-	4,361	4,751
White.	33	64	68	129	-	-	101	193
Sea trout:								
Gray	5,278	3,695	1,911	1,144	-	-	7,189	4,839
Spotted.	1,064	1,153	2	2	-	-	1,066	1,155
White.	110	70	58	24	-	-	168	94
Sharks:								
Dogfish.	14,961	2,352	50,381	9,452	-	-	65,342	11,804
Other.	1,258	753	12,241	9,608	-	-	15,345	10,824
Snapper:								
Red.	239	1,048	4,183	8,481	-	-	4,422	9,529
Other.	898	1,263	4,409	9,025	-	-	5,307	10,288
Striped bass	4,643	7,917	69	104	-	-	4,712	8,021
Swordfish.	134	325	9,809	29,167	-	-	12,879	36,494
Tilefish.	1	1	3,225	5,355	-	-	3,226	5,356

See footnotes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1996 (1) - Continued

Species	Distance caught off U.S. Shores			International Waters (includes catch off foreign coasts)			Total	
	0 to 3 Miles	3 to 200 Miles		Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	
Fish - Continued:	Thousand pounds	Thousand dollars	Thousand pounds	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	
Tuna:								
Albacore	6	23,001	19,630	18,151	17,447	41,158	37,081	
Bigeye	17	4,571	17,420	9,791	9,939	14,379	27,411	
Bluefin	3	6,887	19,290	5,258	2,563	12,148	21,857	
Skipjack	220	2,066	2,561	281,111	109,248	283,397	112,102	
Yellowfin	190	9,752	22,210	94,087	44,366	104,029	67,030	
Unclassified	124	464	324	565	215	1,153	569	
Total	560	46,741	81,435	408,963	183,778	456,264	266,050	
Whiting	3,452	31,948	12,234	-	-	35,400	13,494	
Other marine finfishes	95,960	305,158	85,674	662	590	401,780	125,297	
Other freshwater finfishes	25,155	17,432	-	-	-	25,155	17,432	
Total fish	2,229,758	633,231	1,125,311	414,416	191,854	8,677,240	1,950,396	
Shellfish, et al:								
Clams:								
Hard	9,990	49,346	-	-	-	9,990	49,346	
Ocean quahog	3,473	2,059	18,493	-	-	46,460	20,552	
Soft	2,200	8,253	-	-	-	2,200	8,253	
Surf	19,797	13,029	25,191	-	-	63,438	38,220	
Other	1,151	11,428	-	-	-	1,151	11,428	
Total	36,611	84,115	43,684	-	-	123,239	127,799	
Crabs:								
Blue, hard	218,930	147,044	17	-	-	218,960	147,061	
Dungeness	62,804	84,761	3,097	-	-	64,988	87,858	
King	3,255	11,316	51,244	-	-	21,000	62,560	
Snow (tanner)	2,095	4,277	88,972	-	-	67,867	93,249	
Other	9,988	17,242	18,735	-	-	18,982	35,977	
Total	297,072	264,640	162,065	-	-	391,797	426,705	
Lobsters:								
American	58,965	191,079	50,717	-	-	71,641	241,796	
Spiny	3,015	14,453	20,774	-	-	8,308	35,227	
Oysters	37,968	114,776	63	-	-	38,007	114,839	

(Continued)

See footnotes at end of table.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1996 (1) - Continued

Species	Distance caught off U.S. Shores				International Waters (Includes catch off foreign coasts)			
	0 to 3 Miles	3 to 200 Miles	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Shellfish - Continued:	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Scallops:	35	94	-	-	-	-	35	94
Bay.	1,290	7,632	16,872	94,191	-	-	18,162	101,823
Sea.								
Shrimp:								
New England. . . .	6,290	4,518	14,688	10,644	-	-	20,978	15,162
South Atlantic. . .	18,862	49,265	21,575	17,101	-	-	40,437	66,366
Gulf.	112,811	162,287	105,748	239,067	-	-	218,559	401,354
Pacific Coast. . . .	29,265	19,976	7,602	6,179	-	-	36,867	26,155
Other.	15	54	23	112	-	-	38	166
Total.	167,243	236,100	149,636	273,103	-	-	316,879	509,203
Squid:								
Atlantic.	2,938	2,078	62,310	26,436	-	-	65,248	28,514
Pacific.	165,317	30,061	9,468	1,651	-	-	174,785	31,712
Other shellfish. . .	79,059	75,737	5,019	2,298	-	-	84,078	78,035
Total shell-								
fish et al.	849,513	1,020,765	442,666	674,982	-	-	1,292,179	1,695,747
Grand total,								
1996	3,079,271	1,653,996	6,475,732	1,800,293	414,416	191,854	9,969,419	3,646,143
Grand total,								
1995.	4,454,110	1,688,517	5,320,580	1,822,082	465,121	201,295	10,239,811	3,911,894

(1) Landings are reported in round (live) weight for all items, except univalve and bivalve mollusks, such as clams, oysters and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance-from-shore landings for data collected by the service and states.

(2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States.

(3) Less than 500 lb or \$500.

NOTE:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, and catches by U.S.-flag vessels transferred to internal water processing vessels (IWP) in U.S. waters. Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. Data do not include aquaculture products, except oysters and clams.

U.S. COMMERCIAL LANDINGS

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1996 (1)

Species	Distance caught off U.S. Shores				International Waters (Includes catch off foreign coasts)		Total	
	0 to 3 Miles	(2)	3 to 200 Miles		Metric tons	Thousand dollars	Metric tons	Thousand dollars
Fish	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Alewives.	442	198	-	-	-	-	442	198
Anchovies.	3,401	757	1,105	231	-	-	4,506	988
Bluefish.	2,353	1,761	1,891	1,405	-	-	4,244	3,166
Bonito.	88	90	519	335	-	-	607	425
Butterfish.	454	558	3,939	5,289	-	-	4,393	5,847
Cod:								
Atlantic.	148	277	14,105	26,357	-	-	14,253	26,634
Pacific.	16,480	6,724	258,089	105,254	-	-	274,569	111,978
Croaker.	6,379	5,102	2,912	2,284	-	-	9,291	7,386
Cusk.	5	7	463	657	-	-	468	664
Flounders:								
Atlantic and Gulf:								
Blackback.	687	1,967	5,000	13,454	-	-	5,687	15,421
Fluke.	2,749	10,764	4,868	17,263	-	-	7,617	28,027
Yellowtail.	63	196	2,340	7,443	-	-	2,403	7,639
Other.	623	1,986	6,119	18,940	-	-	6,741	20,926
Pacific.	13,879	7,459	172,113	74,577	-	-	185,992	82,036
Total.	18,001	22,372	190,439	131,677	-	-	208,440	154,049
Groupers.	123	632	4,278	21,777	-	-	4,401	22,409
Haddock.	-	-	569	1,490	-	-	569	1,490
Hake:								
Pacific (whiting).	70,574	4,145	124,716	12,886	-	-	195,290	17,031
Red.	50	25	1,037	670	-	-	1,087	695
White.	45	62	3,245	4,491	-	-	3,289	4,553
Halibut.	1,268	4,749	21,422	80,380	4	21	22,693	85,350
Herring, sea:								
Atlantic.	39,773	4,995	64,236	7,765	-	-	104,009	12,760
Pacific.	54,629	69,747	-	-	-	-	54,629	69,747
Jack mackerel.	958	130	1,219	166	-	-	2,176	166
Lingcod.	538	562	1,717	1,715	-	-	2,255	2,277
Mackerel:								
Atlantic.	822	289	15,199	4,387	-	-	16,022	4,676
Chub.	8,054	1,074	1,923	262	-	-	9,976	1,336
King.	255	695	1,813	5,185	-	-	2,068	5,880
Spanish.	557	689	988	1,089	-	-	1,545	1,778

See footnotes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

11

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1996 (1)

Species	Distance caught off U.S. Shores				International Waters (Includes catch off foreign coasts)			
	0 to 3 Miles (2)		3 to 200 Miles					
	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Fish - Continued:								
Menhaden								
Atlantic	41,938	4,919	262,727	34,758	-	-	304,665	39,677
Gulf	168,656	18,764	322,956	35,709	-	-	491,612	54,473
Total	210,594	23,683	585,682	70,467	-	-	796,276	94,150
Mullet	7,649	12,343	74	175	-	-	7,723	12,518
Ocean perch:								
Atlantic	0	-	327	477	-	-	327	477
Pacific	1,186	321	19,818	5,850	-	-	21,004	6,171
Pollock:								
Atlantic	20	31	2,942	4,512	-	-	2,962	4,543
Alaska	71,382	14,284	1,118,463	223,845	-	-	1,189,844	238,129
Rockfishes	4,555	4,983	38,428	34,066	-	-	42,983	39,049
Sablefish	2,007	7,607	25,186	101,402	-	-	27,193	109,009
Salmon:								
Chinook or king	7,860	19,503	1,422	3,967	-	-	9,282	23,470
Chum or keta	81,899	29,439	8	3	-	-	81,907	29,442
Pink	140,540	26,722	2	1	-	-	140,542	26,723
Red or sockeye	144,444	266,419	1	3	-	-	144,445	266,422
Silver or coho	20,704	20,930	950	1,742	-	-	21,654	22,672
Total	395,447	363,013	2,383	5,716	-	-	397,830	368,729
Sardines, Pacific	22,752	2,137	9,751	916	-	-	32,503	3,053
Scup or porgy	562	1,605	2,566	5,725	-	-	3,128	7,330
Sea bass:								
Black	122	377	1,856	4,374	-	-	1,978	4,751
White	-	-	31	129	-	-	31	129
Sea trout:								
Gray	2,394	3,695	867	1,144	-	-	3,261	4,839
Spotted	483	1,153	1	2	-	-	484	1,155
White	50	70	26	24	-	-	76	94
Sharks:								
Dogfish	6,786	2,352	22,853	9,452	-	-	29,639	11,804
Other	571	753	5,552	9,608	837	463	6,960	10,824
Snapper:								
Red	108	1,048	1,897	8,481	-	-	2,006	9,529
Other	407	1,263	2,000	9,025	-	-	2,407	10,288
Striped bass	2,106	7,917	31	104	-	-	2,137	8,021
Swordfish	61	325	4,449	29,167	1,332	7,002	5,842	36,494
Tilefish	(3)	1	1,463	5,355	-	-	1,463	5,356

See footnotes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1996 (1)

Species	Distance caught off U.S. Shores			International Waters (Includes catch off foreign coasts)			Total	
	0 to 3 Miles	(2)	3 to 200 Miles	Metric tons	Thousand dollars	Metric tons	Thousand dollars	
Fish - Continued:	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Tuna:								
Albacore	3	4	10,433	19,630	8,233	17,447	18,669	37,081
Bigeye	8	52	2,073	17,420	4,441	9,939	6,522	27,411
Bluefin	1	4	3,124	19,290	2,385	2,563	5,510	21,857
Skipjack	100	293	937	2,561	127,511	109,248	128,548	112,102
Yellowfin	86	454	4,423	22,210	42,678	44,366	47,187	67,030
Unclassified	56	30	210	324	256	215	523	569
Total	254	837	21,202	81,435	185,504	183,778	206,960	266,050
Whiting	1,566	1,260	14,492	12,234	-	-	16,057	13,494
Other marine finfishes	43,527	39,033	138,419	85,674	300	590	182,246	125,297
Other freshwater finfishes	11,410	17,432	-	-	-	-	11,410	17,432
Total fish	1,011,412	633,231	2,736,581	1,125,311	187,978	191,854	3,935,970	1,950,396
Shellfish, et al:								
Clams:								
Hard	4,531	49,346	-	-	-	-	4,531	49,346
Ocean quahog	1,575	2,059	19,499	18,493	-	-	21,074	20,552
Soft	998	8,253	-	-	-	-	998	8,253
Surf	8,980	13,029	19,795	25,191	-	-	28,775	38,220
Other	522	11,428	-	-	-	-	522	11,428
Total	16,607	84,115	39,294	43,684	-	-	55,901	127,799
Crabs:								
Blue, hard	99,306	147,044	14	17	-	-	99,320	147,061
Dungeness	28,488	84,761	991	3,097	-	-	29,478	87,858
King	1,476	11,316	8,049	51,244	-	-	9,526	62,560
Snow (tanner)	950	4,277	29,834	88,972	-	-	30,784	93,249
Other	4,531	17,242	4,080	18,735	-	-	8,610	35,977
Total	134,751	264,640	42,967	162,065	-	-	177,718	426,705
Lobsters:								
American	26,746	191,079	5,750	50,717	-	-	32,496	241,796
Spiny	1,368	14,453	2,401	20,774	-	-	3,768	35,227
Oysters	17,222	114,776	-	-	-	-	17,222	114,776

See footnotes at end of table.

(Continued)

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1996 (1)**

Species	Distance caught off U.S. Shores				International Waters (Includes catch off foreign coasts)		Total
	0 to 3 Miles Metric tons	3 to 200 Miles Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	
Shellfish - Continued:							
Scallops:							
Bay.	16	94	(3) -		-	-	16
Sea.	585	7,632	7,653	94,191	-	-	8,238
Shrimp:							
New England. . . .	2,853	4,518	6,662	10,644	-	-	9,516
South Atlantic. . .	8,556	49,265	9,786	17,101	-	-	18,342
Gulf.	51,171	162,287	47,967	239,067	-	-	99,138
Pacific Coast. . . .	13,275	19,976	3,448	6,179	-	-	16,723
Other.	7	54	10	112	-	-	17
Total.	75,861	236,100	67,874	273,103	-	-	143,735
Squid:							
Atlantic.	1,333	2,078	28,264	26,436	-	-	29,596
Pacific.	74,987	30,061	4,295	1,651	-	-	79,282
Other shellfish. . .	35,861	75,737	2,277	2,298	-	-	38,138
Total shell-							
fish et al.	385,337	1,020,765	200,792	674,982	-	-	586,129
Grand total,							
1996	1,396,748	1,653,996	2,937,373	1,800,293	187,978	191,854	4,522,099
Grand total,							
1995.	2,020,371	1,888,517	2,413,399	1,822,082	210,978	201,295	4,644,748

(1) Landings are reported in round (live) weight for all items, except univalve and bivalve mollusks, such as clams, oysters and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance-from-shore landings for data collected by the service and states.

(2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States.

(3) Less than 1 metric ton or \$500.

NOTE:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, and catches by U.S.-flag vessels transferred to internal water processing vessels (IWPs) in U.S. waters. Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. Data do not include aquaculture products, except oysters and clams.

U.S. COMMERCIAL LANDINGS

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1996 (1)

Species	Puerto Rico		Guam	
	Pounds	Dollars	Pounds	Dollars
Fish				
Amberjack.....	-	-	127	312
Ballyhoo.....	41,500	37,400	-	-
Barracuda.....	17,700	22,700	1,454	2,203
Dolphinfish.....	107,800	158,500	77,368	112,976
Emperors.....	-	-	2,098	5,572
Goatfish.....	14,300	19,400	66	165
Groupers.....	68,800	117,600	577	1,481
Grouper, red hind.....	43,200	82,100	-	-
Grunts.....	119,200	165,700	-	-
Hogfish.....	47,500	86,500	-	-
Jacks, unclassified.....	56,300	67,600	1,352	2,593
Mackerel, king and cero.	131,900	189,900	-	-
Margate.....	-	-	-	-
Marlin.....	-	-	32,807	32,690
Mojarra.....	19,200	23,800	-	-
Mullet (black or silver)	48,500	54,300	-	-
Nassau grouper.....	10,800	16,800	-	-
Parrotfish.....	62,100	84,500	2,442	6,683
Reef fish.....	-	-	23,692	69,751
Sailfish.....	-	-	1,053	1,059
Scup or porgy.....	20,300	26,400	-	-
Scad, bigeye.....	-	-	961	3,056
Sharks, other.....	41,500	47,300	59	50
Snappers:				
Ehu.....	-	-	18	72
Lane.....	231,900	403,500	-	-
Lehi.....	-	-	136	510
Mutton.....	60,000	102,000	-	-
Onaga.....	-	-	66	372
Opakapakas.....	-	-	272	1,087
Silk.....	262,600	590,900	-	-
Yellowtail.....	205,900	358,300	-	-
Other.....	45,000	83,300	1,397	3,862
Total snappers.....	805,400	1,538,000	1,889	5,903
Snook.....	36,400	52,100	-	-
Spanish sardine.....	26,000	28,600	-	-
Squirrelfish.....	14,400	16,000	-	-
Surgeonfishes.....	-	-	1,524	4,077
Tarpon.....	100	(2)	-	-
Triggerfish.....	54,300	74,400	-	-
Trunkfish (boxfish).....	47,500	86,500	-	-
Tuna:				
Skipjack.....	-	-	37,828	45,414
Yellowfin.....	-	-	33,696	70,711
Unclassified.....	167,800	209,800	1,571	2,718
Total tuna.....	167,800	209,800	73,095	118,843

(Continued on next page)

U.S. COMMERCIAL LANDINGS

15

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1996 (1)

Species	Puerto Rico		Guam	
	Pounds	Dollars	Pounds	Dollars
Wahoo.....	-	-	41,304	84,965
Other marine finfishes..	175,700	185,000	4,805	9,432
Freshwater fish, other..	-	-	-	-
Total, fish.....	2,178,200	3,390,900	266,673	461,811
Shellfish				
Crabs, other.....	8,400	34,400	-	-
Lobster, spiny.....	195,700	759,300	181	664
Conch (snail) meats....	131,800	200,300	-	-
Oysters.....	11,300	24,900	-	-
Octopus.....	30,200	52,900	224	594
Other shellfish.....	6,700	18,700	-	-
Total, shellfish, at al.....	384,100	1,090,500	405	1,258
Grand total.....	2,562,300	4,481,400	267,078	463,069

Species	American Samoa		Northern Marianas Islands	
	Pounds	Dollars	Pounds	Dollars
Fish				
Amberjack.....	82	164	-	-
Barracuda.....	3,996	6,539	243	438
Dolphinfish.....	11,497	22,810	35,655	68,049
Emperors.....	10,627	19,957	11,531	30,706
Goatfish.....	-	-	26,625	49,219
Grouper.....	7,099	13,447	6,042	16,657
Jacks, unclassified....	3,033	5,697	1,697	4,705
Marlin.....	30,042	33,955	7,040	11,765
Mullet (black or silver)	-	-	171	427
Parrotfish.....	17,483	32,758	6,427	16,459
Reef fish.....	15,190	28,527	108,223	230,069
Sailfish.....	4,252	4,252	681	1,361
Scad, bigeye.....	-	-	4,000	10,739
Sharks, other.....	-	-	-	-
Snappers:				
Ehu.....	2,760	5,771	-	-
Lehi.....	3,405	6,804	2,566	9,886
Onaga.....	3,639	7,584	13,892	60,346
Opakapakas.....	1,381	2,673	4,379	12,217
Yellowtail.....	-	-	-	-
Other.....	5,477	10,433	2,090	6,604
Total snappers.....	16,662	33,265	22,927	89,053

(Continued on next page)

U.S. COMMERCIAL LANDINGS

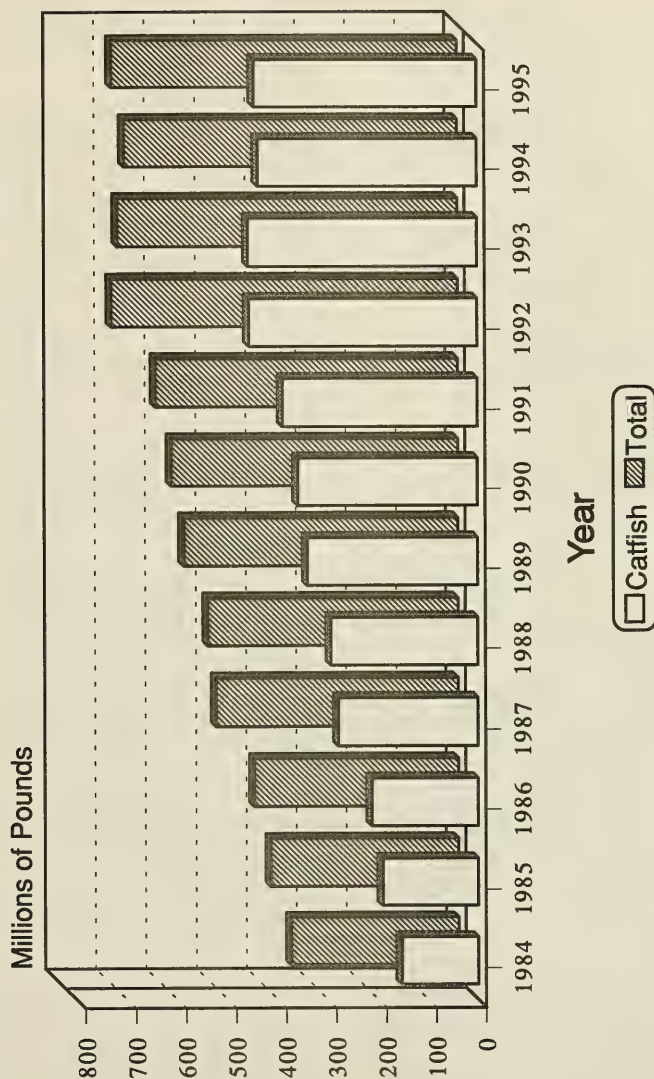
DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1996 (1)

Species	American Samoa		Northern Marianas Islands	
	Pounds	Dollars	Pounds	Dollars
Fish				
Squirrelfish.....	2,063	3,845	9,561	17,709
Surgeonfishes.....	17,960	33,376	7,208	17,939
Triggerfish.....	-	-	-	-
Tuna:				
Albacore.....	232,460	257,435	-	-
Bigeye.....	10,005	20,009	-	-
Skipjack.....	69,753	69,753	164,881	303,778
Yellowfin.....	91,248	179,305	37,772	77,868
Unclassified.....	6,008	11,148	14,380	29,213
Total tuna.....	409,474	537,650	217,033	410,859
Wahoo.....	10,859	11,210	10,111	23,268
Other marine finfishes..	6,450	14,552	17,005	39,865
Freshwater fish, other..	-	-	-	-
Total, fish.....	566,769	802,004	492,180	1,039,287
Shellfish				
Crabs, other.....	39	119	-	-
Lobster, spiny.....	2,790	9,727	3,830	17,388
Shrimp.....	-	-	-	-
Octopus.....	312	593	179	939
Other shellfish.....	4	15	149	744
Total, shellfish, et al.....	3,145	10,454	4,158	19,071
Grand total.....	569,914	812,458	496,338	1,058,358

(1) Data in this table are preliminary and represent the latest information available.

(2) Less than \$1.00.

U.S. Aquaculture Production



U.S. COMMERCIAL LANDINGS

ESTIMATED U.S. AQUACULTURE PRODUCTION, 1984 - 1995

Species	1984			1985			1986		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:									
Baitfish.....	23,598	10,704	47,045	24,807	11,252	51,280	25,807	11,706	51,522
Batfish.....	154,255	69,970	106,899	191,616	86,916	138,922	213,756	96,959	142,789
Catfish.....	2,675	1,213	3,414	3,921	1,779	5,465	2,878	1,305	4,399
Salmon.....	NA	NA	NA	NA	NA	NA	10	5	195
Striped bass.....	49,840	22,653	54,435	50,600	22,952	55,154	51,000	23,133	55,590
Trout.....									
Shellfish:									
Clams.....	2,088	947	6,670	1,999	907	4,698	2,564	1,163	8,173
Crawfish.....	66,280	30,064	27,936	65,011	29,489	29,350	69,834	31,676	35,009
Mussels.....	782	355	309	1,210	549	642	1,175	533	1,032
Oysters.....	25,365	11,505	47,906	21,906	9,936	38,882	24,475	11,102	49,666
Shrimp (SW).....	528	239	874	440	200	1,566	1,354	614	1,687
Miscellaneous:									
	10,217	4,635	11,598	14,267	6,471	21,541	15,668	7,107	22,398
Totals.....	335,728	152,285	307,086	375,777	170,451	347,500	408,521	185,304	372,460
Species	1987			1988			1989		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:									
Baitfish.....	26,000	11,794	71,500	26,400	11,975	71,000	24,005	10,889	62,489
Batfish.....	280,496	127,232	173,347	295,109	133,861	225,463	341,900	155,085	245,142
Catfish.....	4,024	1,825	7,462	6,777	3,074	20,647	8,504	3,857	23,742
Salmon.....	405	184	813	880	399	1,820	1,020	463	2,173
Striped bass.....	56,247	25,513	57,556	56,032	25,416	57,927	55,528	25,187	60,041
Trout.....									
Shellfish:									
Clams.....	2,409	1,093	10,311	2,128	965	11,320	2,370	1,075	12,721
Crawfish.....	70,000	31,752	29,400	65,848	29,868	24,364	66,000	29,937	20,460
Mussels.....	1,164	528	1,024	1,064	483	1,130	618	280	1,136
Oysters.....	23,926	10,853	49,549	24,398	11,067	56,900	22,255	10,095	58,082
Shrimp (SW).....	2,656	1,205	3,408	2,200	998	7,609	1,500	680	7,551
Miscellaneous:									
	16,845	7,641	32,722	19,406	8,803	40,102	24,330	11,036	45,964
Totals.....	484,172	219,619	437,092	500,242	226,908	520,282	548,030	248,585	539,501

U.S. COMMERCIAL LANDINGS

19

ESTIMATED U.S. AQUACULTURE PRODUCTION, 1984 - 1995

Species	1990			1991			1992		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:									
Baitfish.....	21,610	9,802	53,978	21,182	9,608	55,948	20,618	9,352	61,183
Catfish.....	360,435	163,492	273,210	390,870	177,297	246,639	457,367	207,460	273,506
Salmon.....	9,069	4,114	26,341	16,753	7,599	44,156	23,937	10,858	75,193
Striped bass.....	1,590	721	3,490	2,250	1,021	5,086	3,550	1,610	8,266
Trout.....	56,816	25,772	64,640	59,422	26,954	59,142	56,264	25,521	53,942
Shellfish:									
Clams.....	3,680	1,669	13,486	3,784	1,716	11,133	4,282	1,942	11,539
Crawfish.....	71,000	32,205	34,000	60,585	27,481	33,285	63,032	28,591	34,860
Mussels.....	607	275	1,173	210	95	947	282	128	1,162
Oysters.....	22,192	10,066	77,949	20,632	9,359	63,463	23,986	10,880	82,432
Shrimp (SW).....	1,984	900	7,937	3,527	1,600	14,110	4,409	2,000	17,637
Miscellaneous:									
23,548	10,681	98,908	24,891	11,290	102,319	33,455	15,175	104,467	
Totals:	572,531	259,698	655,112	604,106	274,021	636,228	691,182	313,518	724,187
Species	1993			1994			1995		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:									
Baitfish.....	20,574	9,332	63,033	21,709	9,847	68,714	21,759	9,870	72,522
Catfish.....	459,013	208,207	325,432	439,269	199,251	344,475	446,886	202,706	351,222
Salmon.....	25,279	11,466	68,358	24,714	11,210	61,915	31,315	14,204	75,991
Striped bass.....	5,950	2,699	14,270	7,625	3,459	18,835	8,315	3,772	21,156
Trout.....	54,642	24,785	54,309	52,075	23,621	52,569	55,428	25,142	52,659
Shellfish:									
Clams.....	6,125	2,778	12,096	4,872	2,210	14,023	4,325	1,962	19,709
Crawfish.....	56,784	25,757	28,518	49,080	22,263	26,994	58,146	26,375	34,714
Mussels.....	308	140	927	424	193	1,249	410	186	1,221
Oysters.....	24,399	11,067	76,139	28,016	12,708	69,928	23,221	10,533	70,628
Shrimp (SW).....	6,614	3,000	26,455	4,409	2,000	17,637	2,205	1,000	8,818
Miscellaneous:									
19,113	8,670	112,857	33,442	15,169	74,770	38,434	17,433	97,856	
Totals:	678,801	307,902	782,394	665,635	301,930	751,109	690,444	313,183	806,496

NA:--Not available.

NOTE:--Table may not add due to rounding. Clams, oysters and mussels are reported as meat weights (excludes shell) while other identified species such as shrimp are reported as whole (live) weights. Some clam and oyster aquaculture production are reported with U.S. commercial landings. Only pen-reared aquaculture production is indicated for salmon.

Weights and values usually represent final sales of products to processors and dealers. Shrimp (saltwater) are primarily Pacific white shrimp (Penaeus vannamei). Miscellaneous includes ornamental fish, alligators, algae, aquatic plants, eels, scallops, tilapia, and others.

Source:--Fisheries Statistics and Economics Division, F/ST1, NMFS.

COMMERCIAL LANDINGS

SUMMARY OF COMMERCIAL SWORDFISH LANDINGS, BY STATE, 1950-96

Year	Maine		Massachusetts		Rhode Island	
	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
1950...	(2)	(2)	824	293	58	30
1951...	-	-	144	63	55	33
1952...	-	-	213	70	87	42
1953...	-	-	201	66	41	15
1954...	-	-	207	62	135	43
1955...	-	-	298	88	54	18
1956...	-	-	367	126	79	26
1957...	-	-	648	211	135	47
1958...	-	-	1,155	335	283	84
1959...	1	(2)	1,178	304	206	60
1960...	1	(2)	713	289	211	84
1961...	6	2	694	268	128	49
1962...	52	21	703	307	109	48
1963...	445	101	1,717	431	169	45
1964...	241	84	1,149	326	65	21
1965...	210	82	550	210	28	13
1966...	171	73	683	272	1	(2)
1967...	88	30	514	205	39	15
1968...	89	39	264	134	37	20
1969...	109	46	208	108	18	8
1970...	53	28	209	131	6	4
1971...	-	-	73	71	-	-
1972...	-	-	(2)	604	124	152
1973...	(2)	1	811	1,148	62	100
1974...	119	118	2,898	2,682	336	480
1975...	146	198	3,389	4,169	754	942
1976...	611	825	2,459	3,267	338	510
1977...	380	460	2,436	3,177	81	118
1978...	790	1,186	4,132	5,307	668	913
1979...	417	631	3,828	5,701	585	814
1980...	649	1,190	2,636	4,675	514	900
1981...	603	1,339	1,937	4,036	636	1,213
1982...	468	1,145	2,718	7,075	411	1,040
1983...	337	682	2,650	7,007	289	827
1984...	349	926	3,001	8,430	89	275
1985...	125	318	2,937	7,058	250	581
1986...	145	394	2,186	6,751	126	380
1987...	341	1,047	2,682	8,827	119	470
1988...	310	894	4,136	12,164	58	231
1989...	395	1,070	3,620	10,553	504	1,502
1990...	203	570	2,656	7,725	369	1,008
1991...	335	996	1,811	5,214	141	416
1992...	265	723	1,777	4,852	51	169
1993...	468	1,394	1,596	4,348	30	103
1994...	274	787	1,412	4,174	41	153
1995...	81	280	1,750	4,622	85	302
1996...	167	427	-	-	83	332

See footnotes at end of table.

SUMMARY OF COMMERCIAL SWORDFISH LANDINGS, BY STATE, 1950-96 - Continued

Year	New York		New Jersey		Maryland	
	Thousand	Thousand	Thousand	Thousand	Thousand	Thousand
	Pounds	Dollars	Pounds	Dollars	Pounds	Dollars
1950...	24	12	-	-	-	-
1951...	2	1	-	-	-	-
1952...	1	1	(2)	(2)	-	-
1953...	1	1	-	-	-	-
1954...	3	1	-	-	-	-
1955...	2	1	-	-	-	-
1956...	14	7	-	-	-	-
1957...	13	6	-	-	-	-
1958...	84	41	13	4	-	-
1959...	100	40	25	10	-	-
1960...	49	28	20	9	-	-
1961...	49	22	23	12	-	-
1962...	41	22	26	16	-	-
1963...	47	17	193	90	-	-
1964...	171	58	307	103	-	-
1965...	88	30	1,001	438	-	-
1966...	83	35	253	120	-	-
1967...	2	1	257	86	-	-
1968...	57	27	73	29	-	-
1969...	3	1	31	13	-	-
1970...	18	10	-	-	-	-
1971...	4	2	(2)	(2)	-	-
1972...	-	-	-	-	-	-
1973...	-	-	5	5	-	-
1974...	1	1	7	12	-	-
1975...	-	-	122	225	-	-
1976...	-	-	163	268	-	-
1977...	27	37	189	359	(2)	(2)
1978...	60	103	402	592	-	-
1979...	112	222	293	415	(2)	(2)
1980...	180	541	1,394	2,323	74	145
1981...	135	377	114	292	536	1,050
1982...	373	1,244	472	1,177	593	1,289
1983...	428	1,375	676	1,645	561	1,251
1984...	537	2,177	997	2,885	438	1,090
1985...	295	956	587	1,531	233	620
1986...	617	1,959	859	2,417	402	1,102
1987...	531	1,885	655	2,328	337	1,159
1988...	503	1,504	824	2,650	185	570
1989...	344	992	844	2,535	169	489
1990...	367	980	1,313	3,893	173	553
1991...	421	1,351	1,103	3,380	139	468
1992...	452	1,443	800	2,436	97	306
1993...	380	1,245	682	2,063	153	488
1994...	248	826	603	1,969	143	481
1995...	271	893	315	1,090	127	429
1996...	136	451	245	802	-	-

See footnotes at end of table.

COMMERCIAL LANDINGS

SUMMARY OF COMMERCIAL SWORDFISH LANDINGS, BY STATE, 1950-96 - Continued

Year	Virginia		North Carolina		South Carolina	
	<u>Thousand Pounds</u>	<u>Thousand Dollars</u>	<u>Thousand Pounds</u>	<u>Thousand Dollars</u>	<u>Thousand Pounds</u>	<u>Thousand Dollars</u>
1950...	-	-	-	-	-	-
1951...	-	-	-	-	-	-
1952...	-	-	-	-	-	-
1953...	-	-	-	-	-	-
1954...	-	-	-	-	-	-
1955...	-	-	-	-	-	-
1956...	-	-	-	-	-	-
1957...	-	-	-	-	-	-
1958...	-	-	-	-	-	-
1959...	-	-	-	-	-	-
1960...	-	-	-	-	-	-
1961...	-	-	-	-	-	-
1962...	-	-	-	-	-	-
1963...	183	79	1	1	-	-
1964...	635	218	483	233	-	-
1965...	302	112	524	283	-	-
1966...	89	41	77	38	-	-
1967...	145	72	-	-	-	-
1968...	86	50	-	-	-	-
1969...	7	4	-	-	-	-
1970...	-	-	-	-	-	-
1971...	-	-	-	-	-	-
1972...	-	-	-	-	-	-
1973...	2	5	-	-	-	-
1974...	68	93	-	-	-	-
1975...	27	37	-	-	-	-
1976...	25	34	-	-	-	-
1977...	6	10	-	-	-	-
1978...	48	72	439	669	582	818
1979...	22	48	-	-	823	1,009
1980...	308	583	317	455	845	1,155
1981...	54	92	251	562	688	1,351
1982...	71	162	147	378	1158	2,625
1983...	27	59	161	419	1160	3,074
1984...	58	173	132	419	673	1,762
1985...	19	53	78	225	435	1,364
1986...	16	53	94	324	195	555
1987...	24	80	35	130	309	1,144
1988...	20	56	37	135	517	2,061
1989...	15	48	64	278	484	1,540
1990...	(1)	(1)	112	313	476	1,503
1991...	(1)	(1)	48	169	305	1,002
1992...	(1)	(1)	61	238	216	685
1993...	(1)	(1)	27	96	289	931
1994...	(1)	(1)	97	292	259	886
1995...	(1)	(1)	164	497	(1)	(1)
1996...	25	82	171	515	223	296

See footnotes at end of table.

COMMERCIAL LANDINGS

23

SUMMARY OF COMMERCIAL SWORDFISH LANDINGS, BY STATE, 1950-96 - Continued

Year	Florida, East Coast		Florida, West Coast		Louisiana	
	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
1950...	-	-	-	-	-	-
1951...	-	-	-	-	-	-
1952...	-	-	-	-	-	-
1953...	-	-	-	-	-	-
1954...	-	-	-	-	-	-
1955...	-	-	-	-	-	-
1956...	-	-	-	-	-	-
1957...	-	-	-	-	-	-
1958...	-	-	-	-	-	-
1959...	-	-	-	-	-	-
1960...	-	-	-	-	-	-
1961...	-	-	-	-	-	-
1962...	-	-	-	-	-	-
1963...	-	-	-	-	-	-
1964...	-	-	-	-	-	-
1965...	-	-	-	-	-	-
1966...	-	-	-	-	-	-
1967...	-	-	-	-	-	-
1968...	-	-	-	-	-	-
1969...	-	-	-	-	-	-
1970...	-	-	56	23	-	-
1971...	-	-	1	(2)	-	-
1972...	-	-	-	-	-	-
1973...	-	-	-	-	14	14
1974...	-	-	50	86	-	-
1975...	-	-	131	226	-	-
1976...	262	355	391	816	-	-
1977...	113	172	2	2	-	-
1978...	538	939	54	94	-	-
1979...	1,854	2,565	434	593	-	-
1980...	3,173	5,200	881	1,460	-	-
1981...	2,719	5,687	723	1,564	-	-
1982...	3,018	7,641	1,025	2,482	-	-
1983...	2,818	7,499	604	1,855	-	-
1984...	2,639	7,399	595	1,641	(2)	(2)
1985...	2,625	6,928	887	2,364	102	376
1986...	1,447	3,978	445	1,261	138	358
1987...	1,964	8,646	566	2,286	748	2,082
1988...	2,593	11,275	580	2,239	1,321	4,098
1989...	2,824	10,775	764	2,818	1,000	2,627
1990...	2,891	10,766	492	1,898	352	959
1991...	2,241	9,343	229	853	985	2,468
1992...	1,726	7,592	147	595	960	2,370
1993...	1,860	7,832	319	1,267	626	1,552
1994...	1,342	5,779	395	1,615	309	763
1995...	1,302	5,202	578	2,445	633	1,613
1996...	978	4,884	709	3,244	749	1,866

See footnotes at end of table.

COMMERCIAL LANDINGS

SUMMARY OF COMMERCIAL SWORDFISH LANDINGS, BY STATE, 1950-96 - Continued

Year	Texas		California		Hawaii	
	<u>Thousand Pounds</u>	<u>Thousand Dollars</u>	<u>Thousand Pounds</u>	<u>Thousand Dollars</u>	<u>Thousand Pounds</u>	<u>Thousand Dollars</u>
1950...	-	-	27	12	27	6
1951...	-	-	228	100	37	10
1952...	-	-	266	100	26	7
1953...	-	-	143	68	12	2
1954...	-	-	23	12	11	2
1955...	-	-	135	58	38	6
1956...	-	-	275	111	29	7
1957...	-	-	376	156	28	5
1958...	-	-	472	165	25	4
1959...	-	-	448	170	27	5
1960...	-	-	325	146	29	6
1961...	-	-	369	162	23	4
1962...	-	-	39	20	25	4
1963...	-	-	98	58	22	4
1964...	-	-	183	103	24	4
1965...	-	-	327	150	19	4
1966...	-	-	469	220	16	4
1967...	-	-	305	164	12	2
1968...	-	-	199	134	10	2
1969...	-	-	1,032	511	14	3
1970...	-	-	945	534	12	4
1971...	-	-	154	86	2	1
1972...	-	-	266	160	-	-
1973...	-	-	614	773	-	-
1974...	-	-	650	887	-	-
1975...	-	-	866	1,397	1	1
1976...	-	-	84	230	3	2
1977...	-	-	512	1,269	41	68
1978...	-	-	2,604	4,563	29	41
1979...	-	-	586	1,812	29	43
1980...	1,353	1,353	1,197	3,144	33	44
1981...	592	592	1,652	3,355	20	33
1982...	500	500	2,452	5,116	36	74
1983...	210	210	3,875	6,826	36	83
1984...	229	229	6,370	11,685	22	50
1985...	373	373	7,535	13,342	11	26
1986...	381	381	5,577	12,791	15	42
1987...	541	541	3,974	11,126	13	40
1988...	884	884	3,602	9,727	21	58
1989...	1,286	1,286	4,148	11,434	373	1,224
1990...	487	487	2,724	7,171	2,477	7,906
1991...	448	448	2,269	6,344	6,844	20,075
1992...	551	551	3,407	7,573	8,206	23,887
1993...	207	207	3,902	8,975	8,457	25,608
1994...	105	105	3,747	9,599	4,558	15,407
1995...	176	176	2,554	6,532	3,726	12,215
1996...	51	146	2,276	5,501	5,871	13,869

See footnotes at end of table.

SUMMARY OF COMMERCIAL SWORDFISH LANDINGS, BY STATE, 1950-96 - Continued

Year	Other States (1)		Total	
	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
1950...	5	2	965	354
1951...	1	(2)	467	207
1952...	2	1	595	221
1953...	-	-	398	153
1954...	-	-	379	119
1955...	1	(2)	528	169
1956...	33	11	796	288
1957...	13	4	1,213	429
1958...	30	12	2,062	646
1959...	12	5	1,997	595
1960...	17	7	1,365	568
1961...	1	1	1,292	520
1962...	3	1	999	439
1963...	-	-	2,875	827
1964...	1	(2)	3,259	1,150
1965...	(2)	(2)	3,049	1,322
1966...	-	-	1,842	803
1967...	-	-	1,362	575
1968...	-	-	814	434
1969...	2	1	1,423	695
1970...	290	226	1,589	959
1971...	-	-	234	160
1972...	-	-	390	916
1973...	-	-	1,507	2,046
1974...	36	63	4,165	4,422
1975...	23	36	5,460	7,232
1976...	1	2	4,336	6,310
1977...	4	26	3,791	5,698
1978...	3	5	10,349	15,301
1979...	-	-	8,984	13,853
1980...	108	228	13,662	23,396
1981...	135	319	10,795	21,861
1982...	36	133	13,477	32,080
1983...	-	-	13,831	32,812
1984...	8	42	16,136	39,184
1985...	-	-	16,494	36,115
1986...	-	-	12,643	32,746
1987...	-	-	12,839	41,791
1988...	4	10	15,595	48,556
1989...	-	-	16,834	49,172
1990...	99	338	15,191	46,070
1991...	62	216	17,381	52,742
1992...	58	201	18,774	53,622
1993...	36	127	19,032	56,237
1994...	34	124	13,567	42,961
1995...	237	814	11,999	37,111
1996...	1,195	4,079	12,879	36,494

(1) Includes confidential data or state landings for New Hampshire, Connecticut, Delaware, Georgia, Alabama, Mississippi, and Washington.

(2) Less than 500 lb or \$500.

NOTE:--Represents the latest information available and therefore may not match previously published data.

U.S. MARINE RECREATIONAL FISHERIES

DATA COLLECTION. While data on commercial fisheries was collected for many years, prior to 1979 there was no continuous, systematic collection of marine recreational fishery data. Detailed information on marine recreational fishing is required to support a variety of fishery management and development purposes and is mandated by the Magnuson Fishery Conservation and Management Act, Public Law 94-265, as amended. Therefore, NMFS began the comprehensive Marine Recreational Fishery Statistical Survey (MRFSS) in 1979. Data collected through the MRFS show that recreational fisheries have tremendous impacts on fish stocks. For several important species recreational landings surpass commercial landings.

The MRFS data collection consists of an intercept survey of anglers in the field and a telephone survey of coastal county households. These independent components, along with census information, are combined to produce estimates of recreational catch, effort, and participation. Estimates are generated by subregion, state, species, mode and primary area fished. In addition, information on catch rates and measurements of fish lengths and weights are obtained.

The MRFS is being conducted in 1997 along the coast of the entire continental United States except the state of Texas. The MRFS was conducted in the following areas and years:

- Atlantic and Gulf (except Texas), 1979-1996;
- Texas 1981-1995;
- Pacific (not including Alaska), mid-1979 through 1989, 1993 - 1996;
- Western Pacific, 1979 through 1981; and
- Caribbean, 1979, 1981.

In 1995, the MRFS estimation process was updated to reflect results of statistical research on the survey. Improvements included 1) statistical substitution for missing data, 2) replacement of missing weights, and 3) telephone survey sample weighting by county. Atlantic and Gulf coast data for all years were also run through rigorous cleaning programs. Pacific coast data for 1993-1996 were also cleaned, while cleaning of 1981-1989 is underway. Due to the updating of the statistical process, historical estimates for 1981 to 1993 for the Atlantic and Gulf coasts and for 1993 for the Pacific coast were recalculated. Data from 1979-1980 were not recalculated since telephone data by county were not kept in those years. This publication contains the new estimates for all years since 1981. Old MRFS publications are now obsolete and should be discarded. Most estimates did not change dramatically, and in all cases, fisheries trends did not change.

Estimates of trips, participation and catch from the MRFS for the Atlantic, Gulf and Pacific coasts for 1996 are presented in the following tables. Data from other NMFS and state surveys (SE head boats, Texas, California Passenger Fishing Vessels (for-hire), Oregon and Washington ocean boat fishing, Pacific coast salmon estimates, and Alaska) are not included here in order to show the revised MRFS historical data.

DATA TABLES. The total number of fish caught and the weight of the harvest are presented for sixty-four commonly caught species on the Atlantic, Gulf, and Pacific coasts. Total number caught includes fish which were brought ashore in whole form and were available for identification, weighing, and measuring as well as fish which were not available for identification. This latter category includes fish which were used for bait, discarded, filleted or released alive.

Trips and numbers of participants are presented by state and total catch and harvest weight estimates are presented by subregion. Weight estimates apply to harvest, not catch, and do not include fish that were released alive. Total catch in numbers of fish do include fish that were released alive. Catch and harvest weight estimates are also shown by primary fishing area. The fishing areas are: state territorial seas, or ocean 3 miles or less from land; Exclusive Economic Zone (EEZ), or ocean more than 3 miles from land; and inland (sounds, rivers, bays). The state territorial sea for Florida's Gulf coast is 10 miles or less from land.

All estimates are shown with their proportional standard errors (PSE). PSE's express the standard error of an estimate as a percentage of the estimate and are a measure of precision. Usual (95%) confidence intervals for estimates are calculated as a lower limit of the estimate minus 1.96 times the standard error and an upper limit of the estimate plus 1.96 times the standard error. Example: Estimated trips of 64 million with a PSE of 1% means an upper limit of 65,254,400 (1.96 times 1% of 64 million) and a lower limit of 62,745,600. A 95% confidence interval indicates a 95% certainty that the true value lies between the lower and upper limits.

Sampling coverage by wave (two-month sampling periods) has varied across the time series. More detailed information as well as the ability to summarize data by year, wave, state, fishing mode and/or area are available on the Fisheries Statistics and Economics web page (<http://remora.ssp.nmfs.gov>) and will be available in a separate MRFS report to be published later.

1996 MRFSS DATA. In 1996, over 8 million people made 64 million marine recreational fishing trips on the Atlantic, Gulf and Pacific coasts. The marine recreational finfish catch in 1996 was an estimated 313 million fish. Over 50% percent of the catch was released alive. The total weight of the harvest (excluding fish released alive) was an estimated 208 million pounds.

The Atlantic and Gulf coasts accounted for 79% of the participants, 88% of the fishing trips, and 89% of the total U.S. marine recreational finfish catch by number. Nationwide, 55% of the catch came from inland waters, 31% came from state territorial seas, and 13% came from the EEZ. This distribution is different for the Atlantic and Gulf versus the Pacific coasts. On the Atlantic and Gulf coasts the majority of the catch was from inland waters, while on the Pacific coast, the majority of the catch was from the state territorial seas.

ATLANTIC AND GULF. The number of Atlantic and Gulf coast trips made from 1981 to 1996 ranged from a low of 44 million trips in 1981 to a high of 60 million in 1986 with no clear trend. The number of people engaged in marine recreational fishing on the Atlantic and Gulf coast ranged from a low of 6.3 million in 1989 to a high of 8.9 million in 1983. In 1996, 8.8 marine recreational fishing participants took 56 million trips and caught a total of 280 million fish.

By subregion, the Gulf of Mexico accounted for the highest numbers of fish caught (42%) in 1996 followed by the Mid-Atlantic (31%). Thirty percent of the Atlantic and Gulf coast recreational fishing trips were made in the South Atlantic, 29% in the Gulf of Mexico, 29% in the Mid-Atlantic, and 12% in the North Atlantic.

The most commonly caught non-bait species (numbers of fish) in 1996 were spotted seatrout, summer flounder, Atlantic croaker, black sea bass, bluefish, and striped bass. Top-ranked non-bait species by subregion were striped bass in the North Atlantic, summer flounder in the Mid-Atlantic, spot in the South Atlantic, and spotted seatrout in the Gulf of Mexico. By weight, the largest harvests were bluefish, striped bass, red drum, dolphin, spotted seatrout, summer flounder, and king mackerel. Average weights for all fish combined was 1.5 pounds while the average weight for the top harvests were 3.2 pounds for bluefish, 11.2 for striped bass, 4.6 for red drum, 7.6 for dolphin, 1.3 for spotted seatrout, 1.4 for summer flounder, and 9.9 for king mackerel.

Although there is no clear trend for all species combined, historical trends in number of fish caught do appear for some species. Spotted seatrout catch increased since the early 1980's from less than 15 million fish to about 20 million. Summer flounder catches were 13 million or more fish until two

very low years with less than 10 million fish in 1989 and 1990, followed by an increase back to levels similar to the early 1980's. Most of the decrease in 1989-1990 occurred in the Mid-Atlantic. Atlantic croaker and black sea bass showed no clear trends. Bluefish show a general decrease in numbers caught from highs near 30 million fish in the early 1980's to lows near 10 million fish since 1992. The catch of striped bass increased steadily and dramatically since 1990 with a record catch of over 14 million fish in 1996. Over 90% of these fish were released alive in 1996.

Thirteen percent of the total marine recreational catch on the Atlantic and Gulf coasts came from the EEZ. The most commonly caught species in federally managed waters were black sea bass, Atlantic mackerel, dolphin, red snapper, and bluefish.

PACIFIC. In 1996, 1.8 marine recreational fishing participants took 7.8 million trips on the Pacific coast and caught a total of 34 million fish. Seventy-three percent of the Pacific coast recreational fishing trips (excluding salmon and California for-hire boat trips) were made in California, followed by 21% in Washington, and 6% in Oregon.

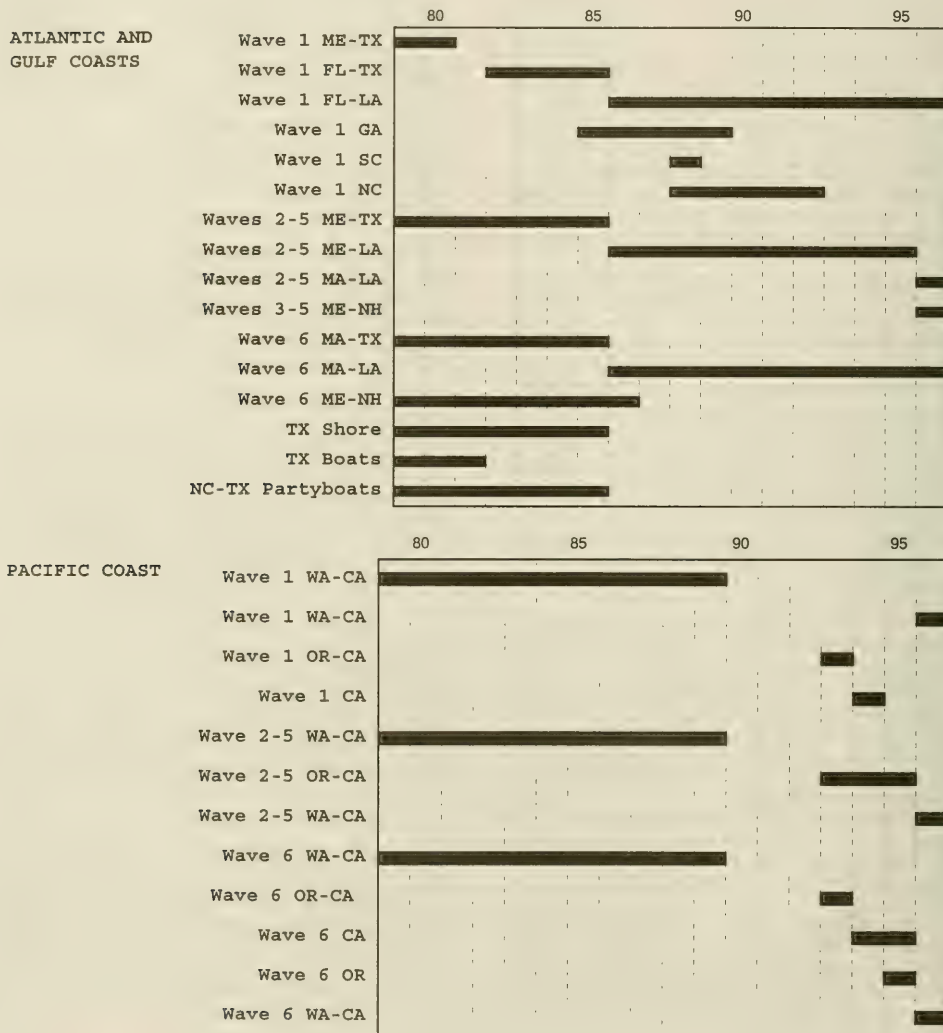
Commonly caught species in 1996 (by numbers) were Pacific mackerel, surf smelt, white croaker, kelp bass and barred sand bass. By weight, the largest harvests were California halibut, Pacific mackerel, black rockfish, barred sandbass, and lingcod. Average weights for all fish combined was 1.1 pounds while the average weight for the top harvests were 7.7 pounds for California halibut, 0.9 for Pacific (chub) mackerel, 1.9 for black rockfish, 1.6 for barred sandbass, and 6.7 for lingcod.

Historical trends in number of fish can not be examined until the 1981-1989 estimates are recalculated; however, there are some changes that should be noted. In 1996, surf smelt jumped from the 1993-1995 average of a little over a million fish to almost 5 million fish. California halibut catch steadily increased from 347,000 fish in 1993 to 712,000 fish in 1996. Pacific mackerel reached a 4-year high in 1996 with 5.5 million fish caught. It should be noted, however, that the 1996 data include Washington state catches whereas the 1993-1995 data do not.

Eleven percent of the total marine recreational catch on the Pacific coast came from the EEZ. The most commonly caught Pacific coast species in federally managed waters for 1996 were Pacific mackerel, barred sand bass, Pacific barracuda, kelp bass, and white croaker. The percent of the catch from the state territorial sea dropped from above 65% in 1993-1995 to 51% in 1996, while the inland catch increased from 13-17% to 38% of the catch.

U.S. MARINE RECREATIONAL FISHERIES

MRFSS SAMPLING COVERAGE BY WAVE, STATE AND MODE, 1979-1996 FOR THE ATLANTIC, GULF AND PACIFIC COASTS



Note: Salmon trips are excluded on the Pacific coast. Ocean boat trips were excluded in WA in 1989 and in OR. during July/August.

ESTIMATED NUMBER OF PEOPLE PARTICIPATING IN MARINE RECREATIONAL FISHING AND PSE (%) BY STATE AND YEAR, 1981 TO 1996 FOR THE ATLANTIC COAST AND GULF COASTS.

YEAR	NORTH ATLANTIC SUB-REGION												TOTAL (1)	
	MAINE		NEW HAMPSHIRE		MASSACHUSETTS		RHODE ISLAND		CONNECTICUT					
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)				
	-----NUMBER IN THOUSANDS-----													
1981..	216	21	110	20	701	15	274	14	272	11	971	6		
1982..	123	22	115	25	695	18	278	17	304	19	844	9		
1983..	166	20	148	30	1,011	13	411	23	230	14	1,123	7		
1984..	135	20	135	23	751	11	297	14	322	13	1,024	6		
1985..	202	39	56	18	980	15	605	15	351	12	1,121	8		
1986..	209	21	148	18	1,000	10	302	17	427	11	1,200	6		
1987..	282	18	77	35	577	13	213	18	227	11	859	7		
1988..	320	67	104	27	620	10	226	16	301	11	959	11		
1989..	210	13	171	26	547	10	191	16	369	11	1,034	6		
1990..	178	17	116	23	684	9	229	14	348	12	963	5		
1991..	338	16	122	27	694	10	300	15	471	11	1,203	5		
1992..	136	19	53	21	594	11	218	15	503	12	977	6		
1993..	202	18	76	21	719	9	254	14	233	10	876	5		
1994..	216	20	122	37	686	9	208	15	228	12	845	6		
1995..	234	21	97	25	688	9	220	17	295	13	874	5		
1996..	268	17	96	19	597	8	243	13	387	12	972	5		
-----NUMBER IN THOUSANDS-----														
YEAR	MID-ATLANTIC SUB-REGION												TOTAL (1)	
	NEW YORK		NEW JERSEY		DELAWARE		MARYLAND		VIRGINIA					
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)				
	-----NUMBER IN THOUSANDS-----													
1981..	827	10	962	14	88	27	844	12	812	26	2,330	7		
1982..	622	12	654	11	205	25	866	16	1,091	9	1,998	6		
1983..	591	11	1,030	13	228	17	971	10	1,432	36	2,588	9		
1984..	555	13	1,057	13	202	18	621	17	559	18	1,919	6		
1985..	628	15	1,323	15	115	20	746	15	534	17	1,913	7		
1986..	784	8	1,247	13	154	19	816	15	720	10	2,197	5		
1987..	664	9	1,018	8	134	19	682	12	494	9	1,947	4		
1988..	647	9	786	8	159	12	637	14	504	11	1,837	5		
1989..	673	16	672	8	246	13	507	11	535	10	1,843	6		
1990..	591	9	886	7	241	13	623	9	413	9	1,795	4		
1991..	734	10	1,032	8	181	13	644	10	717	11	2,215	4		
1992..	521	10	758	9	195	14	534	10	380	10	1,596	4		
1993..	622	9	1,025	8	249	14	840	9	454	9	2,129	4		
1994..	770	9	1,113	8	201	14	811	9	566	7	2,317	4		
1995..	487	9	927	8	293	10	870	9	555	9	1,861	4		
1996..	584	8	997	7	236	11	893	10	507	9	1,994	4		

(1) SUB-REGION TOTALS DO NOT INCLUDE OUT OF STATE ANGLERS SINCE THESE CAN BE COUNTED MULTIPLE TIMES. THEREFORE, THE SUM OF FISHING PARTICIPANTS ACROSS STATES WILL NOT EQUAL THE TOTALS SHOWN IN LAST COLUMN.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED NUMBER OF PEOPLE PARTICIPATING IN MARINE RECREATIONAL FISHING AND PSE (%) BY STATE AND YEAR, 1981 TO 1996 FOR THE ATLANTIC COAST AND GULF COASTS.

YEAR	SOUTH ATLANTIC SUB-REGION										TOTAL (1)			
	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA		EAST FLORIDA		TOTAL (1)		EST	PSE (%)		
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)						
NUMBER IN THOUSANDS														
1981.	592	16	243	23	109	31	1,097	15	1,259	8				
1982.	1,101	22	411	23	150	17	1,251	19	1,690	8				
1983.	1,296	16	413	18	159	25	1,706	12	1,983	6				
1984.	1,092	14	688	41	135	20	2,008	10	2,192	8				
1985.	933	12	498	33	114	18	1,897	11	1,947	6				
1986.	720	13	441	18	146	13	1,924	10	1,727	5				
1987.	1,155	10	602	14	190	16	1,744	9	1,880	4				
1988.	1,357	7	761	11	136	15	1,618	7	2,074	3				
1989.	1,208	9	428	16	102	22	1,749	9	1,762	3				
1990.	1,345	7	469	13	216	4	1,558	7	2,057	4				
1991.	1,119	7	571	15	283	21	2,091	7	2,195	4				
1992.	1,285	5	479	12	170	11	2,143	4	2,278	3				
1993.	1,367	5	512	10	180	12	1,941	4	2,181	2				
1994.	1,480	5	580	10	323	12	2,167	3	2,529	2				
1995.	1,276	5	420	11	313	13	2,086	3	2,287	2				
1996.	1,150	6	471	10	210	13	1,841	4	1,835	3				

YEAR	GULF OF MEXICO SUB-REGION										TOTAL (1)			
	WEST FLORIDA		ALABAMA		MISSISSIPPI		LOUISIANA		TOTAL (1)		EST	PSE (%)		
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)						
NUMBER IN THOUSANDS														
1981.	2,401	27	150	31	162	25	371	15	1,416	7				
1982.	1,701	10	351	30	168	19	433	18	1,512	6				
1983.	3,657	21	432	40	321	26	609	12	2,508	8				
1984.	4,138	15	187	21	225	25	467	12	2,314	7				
1985.	3,055	14	226	21	152	20	667	23	2,096	7				
1986.	3,378	9	310	18	230	18	745	16	2,314	6				
1987.	2,660	12	200	19	202	16	664	9	2,011	4				
1988.	2,942	6	440	25	211	13	586	7	2,283	4				
1989.	2,549	8	220	18	183	19	445	9	1,688	5				
1990.	2,114	7	223	15	211	22	501	10	1,696	4				
1991.	3,004	6	206	16	238	16	551	10	1,897	4				
1992.	2,379	4	215	10	264	11	472	7	1,928	3				
1993.	2,402	3	284	11	251	9	506	6	1,877	3				
1994.	2,665	3	275	10	240	10	446	6	1,931	2				
1995.	2,231	3	283	10	280	10	538	6	2,009	2				
1996.	2,251	3	258	11	230	11	493	7	1,818	3				

(1) SUB-REGION TOTALS DO NOT INCLUDE OUT OF STATE ANGLERS SINCE THESE CAN BE COUNTED MULTIPLE TIMES. THEREFORE, THE SUM OF FISHING PARTICIPANTS ACROSS STATES WILL NOT EQUAL THE TOTALS SHOWN IN LAST COLUMN. NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

ESTIMATED NUMBER OF MARINE RECREATIONAL FISHING TRIPS AND PSE (%) BY STATE AND YEAR, 1981-1996 FOR THE ATLANTIC AND GULF COASTS.

YEAR	NORTH ATLANTIC SUB-REGION												TOTAL	
	MAINE		NEW HAMPSHIRE		MASSACHUSETTS		RHODE ISLAND		CONNECTICUT					
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBER IN THOUSANDS-----													
1981.	513	16	280	17	2,806	8	925	10	1,240	10	5,764	5		
1982.	487	13	339	23	3,192	9	1,088	10	1,933	32	7,039	10		
1983.	439	12	341	27	3,801	7	1,257	16	1,257	12	7,095	6		
1984.	373	12	335	19	2,382	7	880	10	1,345	9	5,315	5		
1985.	570	21	74	19	3,253	9	1,630	39	1,547	10	7,073	10		
1986.	513	11	300	12	3,829	6	1,214	10	1,627	8	7,482	4		
1987.	620	11	190	29	2,686	8	847	10	1,441	9	5,784	5		
1988.	695	45	229	20	2,575	6	991	9	1,250	10	5,739	7		
1989.	483	8	386	19	2,275	6	725	10	1,360	10	5,229	4		
1990.	467	11	312	15	2,536	6	1,006	9	1,220	10	5,542	4		
1991.	895	9	263	22	2,899	6	1,070	9	1,674	10	6,801	4		
1992.	442	11	192	18	2,389	7	836	10	1,842	10	5,701	5		
1993.	608	12	197	14	3,094	5	1,109	9	1,218	10	6,225	4		
1994.	606	12	314	23	3,249	5	1,003	9	1,109	11	6,281	4		
1995.	628	13	286	15	3,368	5	885	10	1,347	12	6,513	4		
1996.	687	13	250	12	3,290	5	1,001	8	1,528	11	6,756	4		
-----MID-ATLANTIC SUB-REGION-----														
YEAR	NEW YORK		NEW JERSEY		DELAWARE		MARYLAND		VIRGINIA				TOTAL	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)		
	-----NUMBER IN THOUSANDS-----													
1981.	4,078	8	4,255	9	560	20	2,292	9	2,828	16	14,013	5		
1982.	4,168	13	4,805	7	750	17	2,980	12	2,796	41	15,498	8		
1983.	5,134	12	5,373	9	924	11	3,173	8	3,967	20	18,571	6		
1984.	5,337	12	4,963	8	1,037	14	2,507	12	1,919	11	15,763	5		
1985.	3,958	21	6,330	9	546	15	2,191	12	1,718	10	14,742	5		
1986.	4,891	11	7,752	6	864	13	2,755	11	2,579	7	18,840	4		
1987.	4,537	11	5,259	5	550	11	2,349	8	2,028	7	14,724	3		
1988.	4,101	45	4,449	5	830	8	3,057	8	2,462	7	14,898	4		
1989.	3,741	8	3,865	5	826	11	1,986	8	1,749	6	12,167	4		
1990.	3,851	11	4,694	4	740	10	2,107	7	1,962	6	13,353	3		
1991.	4,450	9	5,720	5	539	9	2,223	7	3,045	8	15,977	3		
1992.	3,409	11	4,559	5	587	11	1,782	8	1,878	7	12,215	3		
1993.	4,189	12	5,193	6	795	10	3,045	7	2,068	6	15,290	3		
1994.	4,380	12	5,659	5	692	11	2,872	7	2,634	5	16,237	3		
1995.	4,019	13	4,956	5	865	7	2,851	7	2,885	5	15,576	3		
1996.	4,372	13	5,500	4	816	7	3,027	7	2,786	5	16,502	3		

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED NUMBER OF MARINE RECREATIONAL FISHING TRIPS AND PSE (%) BY STATE AND YEAR, 1981-1996 FOR THE ATLANTIC AND GULF COASTS.

YEAR	SOUTH ATLANTIC SUB-REGION												TOTAL	
	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA		EAST FLORIDA							
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)		
	-----NUMBER IN THOUSANDS-----													
1981.	2,074	12	606	15	327	20	5,544	7	8,551	6				
1982.	3,439	7	1,459	15	493	17	8,240	10	13,630	7				
1983.	4,563	10	1,183	12	480	16	8,234	6	14,460	5				
1984.	3,809	9	1,734	26	529	14	9,016	5	15,088	5				
1985.	3,380	7	1,572	19	439	12	9,927	6	15,318	4				
1986.	2,977	9	1,448	9	639	9	9,840	5	14,904	4				
1987.	3,862	6	1,648	8	751	10	10,687	4	16,948	3				
1988.	4,763	5	1,906	7	667	9	11,485	3	18,821	3				
1989.	3,849	6	1,081	9	626	14	10,806	4	16,361	3				
1990.	3,868	5	931	9	705	12	8,068	3	13,572	3				
1991.	3,762	5	1,796	8	741	14	11,087	3	17,386	3				
1992.	4,372	4	1,457	7	572	8	10,340	2	16,741	2				
1993.	4,716	4	1,776	5	673	7	9,630	2	16,796	2				
1994.	5,170	3	1,987	6	956	9	11,815	2	19,928	1				
1995.	4,992	4	1,502	6	778	9	11,482	2	18,754	2				
1996.	4,605	4	1,390	6	577	9	10,251	8	16,823	2				
-----NUMBER IN THOUSANDS-----														
YEAR	GULF OF MEXICO SUB-REGION												TOTAL (1)	
	WEST FLORIDA		ALABAMA		MISSISSIPPI		LOUISIANA							
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)		
	-----NUMBER IN THOUSANDS-----													
1981.	9,520	17	523	24	662	15	1,358	11	12,064	11				
1982.	8,808	6	1,363	30	717	12	2,536	12	13,424	5				
1983.	14,521	12	1,739	33	1,038	14	2,685	8	19,983	8				
1984.	16,521	9	613	15	797	16	1,711	8	19,643	7				
1985.	11,583	9	711	16	572	10	2,554	19	15,419	6				
1986.	14,367	5	867	10	777	10	3,029	12	19,040	4				
1987.	12,321	7	622	11	776	8	2,371	6	16,089	6				
1988.	14,730	3	1,183	17	908	7	2,923	4	19,743	3				
1989.	12,032	4	623	9	704	9	2,264	6	15,623	3				
1990.	9,923	3	723	9	686	11	1,978	6	13,310	3				
1991.	14,261	3	649	10	844	8	2,420	6	18,174	3				
1992.	13,764	2	763	5	1,001	6	2,551	4	18,079	2				
1993.	12,928	2	933	6	866	6	2,704	4	17,431	1				
1994.	13,167	2	887	6	964	6	2,485	4	17,504	1				
1995.	12,159	2	977	5	1,033	6	2,947	4	17,115	1				
1996.	11,766	2	870	7	903	6	2,780	5	16,319	2				

(1) Gulf of Mexico totals do not include Texas data.

NOTE:--EST = ESTIMATE, PSE (%) = PROPORTIONAL STANDARD ERROR.

ESTIMATED NUMBER OF PEOPLE PARTICIPATING IN MARINE RECREATIONAL FISHING AND PSE (%) BY STATE AND YEAR, 1993-1996 FOR THE PACIFIC COAST

YEAR	PACIFIC COAST SUB-REGION								TOTAL (1)	
	SO. CALIFORNIA		NO. CALIFORNIA		OREGON		WASHINGTON			
	EST	PSE(%)	EST	PSE(%)	EST	PSE(%)	EST	PSE(%)	EST	PSE(%)
	-----NUMBER IN THOUSANDS-----									
1993. . .	985	6	620	7	300	8	NA	NA	1,661	4
1994. . .	1,285	6	449	7	216	7	NA	NA	1,671	4
1995. . .	1,063	7	634	7	249	7	NA	NA	1,678	4
1996. . .	958	10	523	7	219	11	447	9	1,783	4

(1) SUB-REGION TOTALS DO NOT INCLUDE OUT OF STATE ANGLERS SINCE THEY CAN BE COUNTED MULTIPLE TIMES THEREFORE, THE SUM OF PARTICIPANTS ACROSS STATES WILL NOT EQUAL TOTALS SHOWN IN LAST COLUMN.

NOTE: EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

NA - NOT AVAILABLE (MRFSS NOT CONDUCTED IN WASHINGTON FROM 1993-1995).

ESTIMATED NUMBER OF MARINE RECREATIONAL FISHING TRIPS AND PSE(%) BY STATE AND YEAR, 1993-1996 FOR THE PACIFIC COAST

YEAR	PACIFIC COAST SUB-REGION								TOTAL	
	SO. CALIFORNIA		NO. CALIFORNIA		OREGON		WASHINGTON			
	EST	PSE(%)	EST	PSE(%)	EST	PSE(%)	EST	PSE(%)	EST	PSE(%)
	-----NUMBER IN THOUSANDS-----									
1993. . .	4,038	4	2,152	5	704	6	NA	NA	6,893	3
1994. . .	4,748	4	1,968	6	471	5	NA	NA	7,187	3
1995. . .	4,300	4	2,340	5	579	5	NA	NA	7,220	3
1996. . .	3,519	5	2,186	4	497	8	1,648	7	7,849	3

NOTE: EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

NA - NOT AVAILABLE (MRFSS NOT CONDUCTED IN WASHINGTON FROM 1993-1995).

ESTIMATED NUMBER OF PEOPLE PARTICIPATING IN MARINE RECREATIONAL FISHING AND PSE (%) BY COAST AND YEAR, 1993-1996 U.S. TOTALS

UNIT: (LBS) BY COAST AND YEAR: 1993-1996 U.S. TOTALS								
YEAR	U.S. TOTALS						TOTAL	
	ATLANTIC COAST		GULF OF MEXICO		PACIFIC COAST			
	EST	PSE(%)	EST	PSE(%)	EST	PSE(%)	EST	PSE(%)
	-----NUMBER IN THOUSANDS-----							
1993.	5,186	3	1,877	3	1,661	4	8,724	2
1994.	5,691	2	1,931	2	1,671	4	9,293	2
1995.	5,022	2	2,009	2	1,678	4	8,709	2
1996.	4,801	3	1,818	3	1,783	4	8,402	2

NOTE: EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR. TOTALS ONLY INCLUDE CONTINENTAL U.S.

TEXAS DATA NOT INCLUDED FOR ALL YEARS AND WASHINGTON NOT INCLUDED FOR 1993-1995.

ESTIMATED NUMBER OF MARINE RECREATIONAL FISHING TRIPS AND PSE(%) BY COAST AND YEAR, 1993-1996 U.S. TOTALS

YEAR	U.S. TOTALS						TOTAL	
	ATLANTIC COAST		GULF OF MEXICO		PACIFIC COAST			
	EST	PSE(%)	EST	PSE(%)	EST	PSE(%)	EST	PSE(%)
	-----NUMBER IN THOUSANDS-----							
1993.	38,311	1	17,431	1	6,893	3	62,635	1
1994.	42,446	1	17,504	1	7,187	3	67,137	1
1995.	40,843	1	17,115	1	7,220	3	65,178	1
1996.	40,081	1	16,319	2	7,849	3	64,249	1

NOTE: EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR. TOTALS ONLY INCLUDE CONTINENTAL U.S.

TEXAS DATA NOT INCLUDED FOR ALL YEARS AND WASHINGTON NOT INCLUDED FOR 1993-1995.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) WITH PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1981-1996 FOR THE
ATLANTIC AND GULF COASTS

YEAR	ATLANTIC COD								TOTAL	
	NORTH ATLANTIC		MID-ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	4,280	18	401	16	0	0	0	0	4,681	17
1982. . .	2,813	22	671	29	0	0	0	0	3,484	18
1983. . .	3,074	13	265	27	0	0	0	0	3,340	12
1984. . .	1,514	8	83	28	0	0	0	0	1,597	8
1985. . .	3,703	36	112	40	0	0	0	0	3,815	35
1986. . .	1,417	13	51	24	0	0	0	0	1,468	13
1987. . .	2,906	17	190	34	0	0	0	0	3,097	16
1988. . .	2,151	19	657	19	0	0	0	0	2,809	15
1989. . .	1,998	10	338	16	0	0	0	0	2,336	9
1990. . .	2,103	11	209	15	0	0	0	0	2,311	10
1991. . .	2,171	13	84	21	0	0	0	0	2,255	13
1992. . .	731	12	119	15	0	0	0	0	850	10
1993. . .	2,270	11	423	15	0	0	0	0	2,693	10
1994. . .	1,749	8	112	23	0	0	0	0	1,861	8
1995. . .	1,747	15	195	19	0	0	0	0	1,942	14
1996. . .	1,061	10	19	24	0	0	0	0	1,080	10

YEAR	ATLANTIC CROAKER								TOTAL	
	NORTH ATLANTIC		MID-ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	0	0	1,313	18	2,775	15	5,312	15	9,400	10
1982. . .	0	0	361	29	3,691	18	10,462	13	14,515	10
1983. . .	0	0	5,180	15	3,898	17	10,267	11	19,345	8
1984. . .	0	0	3,002	14	8,442	10	8,753	11	20,197	7
1985. . .	0	0	3,935	10	5,484	25	7,345	11	16,764	10
1986. . .	0	0	9,137	9	6,726	25	14,204	9	30,067	8
1987. . .	0	0	5,534	6	6,213	16	4,640	14	16,387	7
1988. . .	0	0	6,161	10	4,467	10	6,948	19	17,577	9
1989. . .	0	0	3,612	6	3,822	7	2,799	13	10,233	5
1990. . .	0	0	6,488	10	4,247	6	4,094	13	14,829	6
1991. . .	0	0	15,578	7	3,232	7	7,122	14	25,932	6
1992. . .	0	0	9,722	8	3,403	4	3,827	9	16,953	5
1993. . .	0	0	14,136	6	2,921	5	3,959	7	21,016	5
1994. . .	0	0	17,472	5	5,753	5	3,445	6	26,671	3
1995. . .	0	0	12,246	6	2,970	7	2,537	6	17,753	4
1996. . .	0	0	12,082	6	2,245	5	2,539	7	16,867	5

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

**ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) WITH PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1981-1996 FOR THE
ATLANTIC AND GULF COASTS**

YEAR	ATLANTIC MACKEREL								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	2,129	22	2,969	20	10	76	0	0	5,108	15
1982. . .	689	33	854	28	0	0	0	0	1,543	21
1983. . .	953	14	3,146	31	21	72	0	0	4,119	24
1984. . .	1,437	16	2,388	25	0	0	0	0	3,825	17
1985. . .	5,185	39	2,625	22	15	73	0	0	7,825	27
1986. . .	1,552	23	3,836	26	0	0	0	0	5,388	20
1987. . .	2,991	20	4,743	20	0	0	0	0	7,735	15
1988. . .	4,890	22	1,105	34	4	100	0	0	5,999	19
1989. . .	2,926	10	1,109	24	0	0	0	0	4,035	10
1990. . .	2,585	11	1,406	25	0	0	0	0	3,994	12
1991. . .	3,287	16	2,168	19	0	0	0	0	5,455	12
1992. . .	787	11	252	35	0	0	0	0	1,045	12
1993. . .	2,161	10	144	35	0	0	0	0	2,307	10
1994. . .	4,690	12	170	44	0	0	0	0	4,860	12
1995. . .	2,934	13	1,074	35	0	0	0	0	4,008	13
1996. . .	3,001	10	647	26	1	55	0	0	3,650	9

YEAR	BLACK DRUM								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	0	0	4	74	71	21	473	15	548	13
1982. . .	0	0	0	0	194	22	1,514	13	1,708	12
1983. . .	0	0	46	22	220	19	1,497	14	1,764	12
1984. . .	0	0	4	62	273	16	668	16	946	12
1985. . .	0	0	7	31	240	18	658	14	905	12
1986. . .	0	0	35	40	415	18	1,442	13	1,892	11
1987. . .	0	0	16	30	388	19	1,180	14	1,584	11
1988. . .	0	0	1	58	210	14	1,213	8	1,424	7
1989. . .	0	0	5	32	108	19	622	14	736	12
1990. . .	0	0	3	47	134	16	680	16	818	14
1991. . .	0	0	5	40	348	13	671	12	1,024	9
1992. . .	0	0	5	34	270	9	1,130	7	1,405	6
1993. . .	0	0	12	34	253	9	1,268	9	1,534	7
1994. . .	0	0	4	41	297	8	824	8	1,125	6
1995. . .	0	0	27	23	505	10	1,063	8	1,595	6
1996. . .	0	0	22	29	355	8	818	7	1,196	6

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) WITH PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1981-1996 FOR THE
ATLANTIC AND GULF COASTS

YEAR	BLACK SEA BASS								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	228	26	3,299	16	2,606	15	246	65	6,379	10
1982. . .	321	21	11,025	32	3,555	13	1,036	14	15,936	22
1983. . .	232	19	6,878	13	2,847	15	1,194	20	11,152	9
1984. . .	129	22	2,956	12	4,009	10	558	23	7,652	7
1985. . .	122	29	5,769	8	3,450	11	4,191	20	13,532	8
1986. . .	874	15	27,939	17	1,947	10	2,065	12	32,825	14
1987. . .	346	26	4,552	9	2,785	7	2,861	13	10,544	6
1988. . .	258	20	7,540	8	2,947	13	5,049	7	15,794	5
1989. . .	141	15	6,209	5	2,261	9	5,453	8	14,064	4
1990. . .	58	19	8,960	6	1,384	11	3,323	8	13,725	4
1991. . .	88	22	10,592	5	1,900	9	3,280	12	15,859	4
1992. . .	40	13	7,515	6	1,824	7	2,380	6	11,759	4
1993. . .	67	14	8,898	14	1,418	7	2,375	7	12,758	10
1994. . .	33	38	6,995	7	2,131	6	2,735	6	11,892	4
1995. . .	122	12	13,841	7	1,660	6	2,170	6	17,793	6
1996. . .	195	13	9,807	7	1,312	7	1,435	7	12,750	6
	BLUEFISH								TOTAL	
YEAR	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	8,707	14	18,397	24	4,157	14	494	28	31,755	14
1982. . .	10,096	12	11,276	9	5,848	11	499	19	27,719	6
1983. . .	7,190	18	15,866	7	7,082	13	2,337	30	32,475	6
1984. . .	5,485	10	15,176	9	5,847	7	560	45	27,068	6
1985. . .	5,709	13	12,756	7	4,009	8	519	26	22,993	5
1986. . .	8,437	7	18,459	6	3,514	10	888	23	31,298	4
1987. . .	6,541	8	17,318	5	3,744	7	888	16	28,491	4
1988. . .	2,311	6	7,318	8	3,736	8	1,070	11	14,435	5
1989. . .	2,931	9	12,103	4	3,603	7	878	11	19,515	3
1990. . .	2,866	7	9,702	4	3,878	6	427	19	16,873	3
1991. . .	4,845	7	11,040	4	2,407	6	959	16	19,251	3
1992. . .	3,080	6	5,640	4	2,681	6	589	13	11,990	3
1993. . .	2,425	5	4,516	5	2,984	4	376	12	10,301	3
1994. . .	2,220	6	6,190	6	3,510	4	484	12	12,405	3
1995. . .	2,022	6	5,113	5	3,341	5	464	12	10,940	3
1996. . .	2,810	7	5,135	5	1,954	4	471	12	10,370	3

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

**ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) WITH PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1981-1996 FOR THE
ATLANTIC AND GULF COASTS**

YEAR	DOLPHIN								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	----- NUMBERS IN THOUSANDS -----									
1981. . .	0	0	0	0	607	24	224	21	1,128	16
1982. . .	0	0	2	100	595	14	728	23	1,332	14
1983. . .	0	0	4	40	981	16	209	21	1,194	13
1984. . .	0	0	9	71	801	24	297	35	1,107	20
1985. . .	0	0	34	36	704	21	397	30	1,138	16
1986. . .	0	0	31	27	756	11	750	16	1,539	10
1987. . .	0	0	14	25	902	10	623	15	1,554	8
1988. . .	0	54	27	33	1,121	11	460	16	1,689	9
1989. . .	1	74	153	21	2,046	8	694	14	2,923	7
1990. . .	1	94	92	34	1,150	10	536	25	1,925	10
1991. . .	2	58	142	20	1,883	7	1,112	14	3,141	6
1992. . .	0	100	154	20	924	6	388	12	1,484	5
1993. . .	18	29	246	22	961	5	675	11	1,927	5
1994. . .	1	54	86	20	1,680	7	653	11	2,450	6
1995. . .	11	60	74	21	1,523	4	963	8	2,613	4
1996. . .	1	100	199	35	1,233	5	461	9	1,905	5

GAG									TOTAL	
YEAR	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	----- NUMBERS IN THOUSANDS -----									
1981. . .	0	0	0	0	61	42	182	27	243	23
1982. . .	0	0	0	0	7	41	381	14	388	14
1983. . .	0	0	0	0	22	49	758	23	780	22
1984. . .	0	0	0	0	77	20	261	35	338	27
1985. . .	0	0	0	0	78	26	280	17	359	14
1986. . .	0	0	0	0	46	22	198	18	244	15
1987. . .	0	0	0	0	102	29	298	13	400	12
1988. . .	0	0	0	0	63	24	272	13	335	12
1989. . .	0	0	0	0	124	15	432	13	556	11
1990. . .	0	0	0	0	73	22	585	17	658	15
1991. . .	0	0	0	0	66	15	1,139	11	1,205	11
1992. . .	0	0	0	0	81	12	1,014	8	1,095	7
1993. . .	0	0	0	0	86	19	1,652	6	1,738	6
1994. . .	0	0	0	0	137	15	2,095	5	2,232	5
1995. . .	0	0	0	0	123	12	2,416	5	2,539	5
1996. . .	0	0	0	0	96	12	1,494	5	1,590	5

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) WITH PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1981-1996 FOR THE
ATLANTIC AND GULF COASTS

YEAR	GRAY SNAPPER								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	0	0	0	0	897	39	746	17	1,643	22
1982. . .	0	0	0	0	532	28	1,500	11	2,032	11
1983. . .	0	0	0	0	472	16	3,625	34	4,097	31
1984. . .	0	0	0	0	409	18	3,965	22	4,373	20
1985. . .	0	0	0	0	938	19	1,383	20	2,321	14
1986. . .	0	0	0	0	524	13	1,570	18	2,093	14
1987. . .	0	0	0	0	653	13	1,378	41	2,031	28
1988. . .	0	0	0	0	587	11	1,396	9	1,983	7
1989. . .	0	0	1	100	736	10	2,415	8	3,152	7
1990. . .	0	0	0	0	697	12	1,872	10	2,570	8
1991. . .	0	0	0	0	1,074	10	6,332	8	7,405	7
1992. . .	0	0	0	0	1,178	7	4,185	7	5,363	5
1993. . .	0	0	0	0	745	7	4,408	4	5,154	4
1994. . .	0	0	0	0	1,312	8	3,534	5	4,845	4
1995. . .	0	0	0	0	1,315	12	3,237	5	4,552	5
1996. . .	0	0	0	0	1,084	8	3,330	6	4,413	5

YEAR	GRAY TRIGGERFISH								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	0	0	0	0	36	28	338	24	374	22
1982. . .	0	0	1	49	68	21	626	18	695	17
1983. . .	0	0	14	60	51	25	138	16	203	13
1984. . .	2	100	0	0	66	22	180	65	247	48
1985. . .	0	0	8	82	147	28	154	23	308	18
1986. . .	3	100	7	31	135	22	515	24	660	19
1987. . .	0	0	35	37	94	19	693	27	822	23
1988. . .	0	0	4	71	151	18	760	12	914	10
1989. . .	1	63	43	33	378	18	997	12	1,419	10
1990. . .	1	59	35	29	181	15	1,099	14	1,315	12
1991. . .	2	40	67	21	382	15	957	12	1,408	9
1992. . .	1	100	20	21	197	9	818	8	1,035	6
1993. . .	1	52	89	23	154	13	661	8	906	7
1994. . .	1	53	31	27	115	10	686	8	834	6
1995. . .	0	100	38	28	131	13	661	8	830	7
1996. . .	1	50	106	34	162	12	392	8	662	8

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

**ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) WITH PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1981-1996 FOR THE
ATLANTIC AND GULF COASTS**

YEAR	GREATER AMBERJACK								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	0	0	0	0	69	31	122	28	190	21
1982. . .	0	0	7	62	38	38	505	19	550	17
1983. . .	0	0	0	0	27	26	243	25	270	22
1984. . .	0	0	10	56	78	19	77	18	164	13
1985. . .	0	0	2	50	126	20	128	20	257	14
1986. . .	0	0	28	29	126	15	628	16	782	13
1987. . .	0	0	9	55	127	24	676	19	811	16
1988. . .	0	0	7	63	93	16	292	19	392	14
1989. . .	0	0	18	20	94	25	723	15	835	13
1990. . .	0	0	30	31	84	15	139	27	253	16
1991. . .	0	0	88	36	103	14	518	13	709	11
1992. . .	0	0	12	33	103	14	577	22	692	18
1993. . .	0	0	694	19	67	12	380	10	1,141	12
1994. . .	0	0	1	52	98	13	233	11	332	9
1995. . .	0	0	2	73	35	16	126	14	164	11
1996. . .	0	0	25	37	90	13	142	9	258	8

YEAR	KING MACKEREL								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	0	0	3	76	462	39	238	62	703	33
1982. . .	0	0	0	0	742	14	750	62	1,492	32
1983. . .	0	0	0	0	684	18	261	34	945	16
1984. . .	0	0	0	0	685	15	304	31	989	14
1985. . .	0	0	0	61	849	25	149	19	998	21
1986. . .	0	0	11	28	689	11	177	13	877	9
1987. . .	0	0	7	37	633	10	443	11	1,083	7
1988. . .	0	0	13	34	672	10	356	9	1,041	7
1989. . .	0	0	7	20	427	8	416	24	850	13
1990. . .	0	0	2	55	582	7	487	16	1,071	8
1991. . .	1	71	12	27	672	6	751	9	1,436	6
1992. . .	0	0	13	26	790	9	485	7	1,289	6
1993. . .	0	0	17	40	506	5	500	6	1,023	4
1994. . .	0	0	5	47	461	6	682	6	1,148	4
1995. . .	0	0	1	61	628	6	622	6	1,252	4
1996. . .	0	0	2	59	485	5	748	7	1,235	4

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) WITH PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1981-1996 FOR THE
ATLANTIC AND GULF COASTS

YEAR	RED DRUM								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	0	0	50	59	136	23	1,517	11	1,704	10
1982. . .	0	0	0	0	428	15	2,907	10	3,335	9
1983. . .	0	0	35	45	652	14	4,969	12	5,657	11
1984. . .	0	0	1	100	1,100	12	3,760	11	4,862	9
1985. . .	0	0	1	73	1,218	15	2,439	11	3,658	9
1986. . .	0	0	49	24	607	9	3,542	6	4,197	6
1987. . .	0	0	2	59	1,487	9	4,881	7	6,370	6
1988. . .	0	0	8	50	1,292	10	4,504	5	5,805	5
1989. . .	0	0	23	26	570	10	3,814	7	4,407	6
1990. . .	0	0	2	72	612	13	2,401	7	3,015	6
1991. . .	0	0	39	34	1,390	12	6,642	7	8,070	7
1992. . .	0	0	29	29	844	6	7,809	4	8,682	3
1993. . .	0	0	64	36	1,274	7	6,310	4	7,649	4
1994. . .	0	0	12	32	1,683	6	5,913	4	7,609	3
1995. . .	0	0	36	37	2,105	7	7,096	4	9,236	3
1996. . .	0	0	3	40	1,130	6	5,952	3	7,085	3
	RED SNAPPER									
YEAR	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)		TOTAL	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	0	0	0	0	166	25	1,791	19	1,957	18
1982. . .	0	0	0	0	60	31	1,456	19	1,516	18
1983. . .	0	0	0	0	206	18	2,617	16	2,823	15
1984. . .	0	0	0	0	539	15	676	15	1,215	11
1985. . .	0	0	0	0	619	17	827	13	1,445	11
1986. . .	0	0	0	0	181	32	875	12	1,056	12
1987. . .	0	0	0	0	170	37	857	21	1,027	19
1988. . .	0	0	0	0	270	25	912	11	1,183	10
1989. . .	0	0	0	0	196	17	985	14	1,181	12
1990. . .	0	0	0	0	17	30	930	14	947	14
1991. . .	0	0	0	0	91	27	1,509	9	1,600	9
1992. . .	0	0	0	0	116	15	1,908	6	2,024	5
1993. . .	0	0	0	0	87	23	2,458	5	2,546	5
1994. . .	0	0	0	0	95	21	1,916	6	2,011	5
1995. . .	0	0	0	0	69	16	1,539	6	1,609	6
1996. . .	0	0	0	0	34	24	1,700	6	1,733	6

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.
NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

41

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) WITH PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	SAND SEATROUT								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	----- NUMBERS IN THOUSANDS -----									
1981. . .	0	0	0	0	0	0	9,215	45	9,215	45
1982. . .	0	0	0	0	0	0	3,498	22	3,498	22
1983. . .	0	0	0	0	0	0	5,457	18	5,457	18
1984. . .	0	0	0	0	0	0	7,681	22	7,681	22
1985. . .	0	0	0	0	0	0	6,791	16	6,791	16
1986. . .	0	0	0	0	0	0	7,118	8	7,118	8
1987. . .	0	0	0	0	0	0	4,008	9	4,008	9
1988. . .	0	0	0	0	1	100	2,951	8	2,953	8
1989. . .	0	0	0	0	0	0	3,421	16	3,421	16
1990. . .	0	0	0	0	0	0	4,583	9	4,583	9
1991. . .	0	0	0	0	0	0	5,135	10	5,135	10
1992. . .	0	0	0	0	0	0	3,780	10	3,780	10
1993. . .	0	0	0	0	0	0	4,068	7	4,068	7
1994. . .	0	0	0	0	0	0	5,665	5	5,665	5
1995. . .	0	0	0	0	0	0	4,355	7	4,355	7
1996. . .	0	0	0	0	0	0	4,624	6	4,624	6

YEAR	SCUP								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	----- NUMBERS IN THOUSANDS -----									
1981. . .	4,954	12	5,419	37	5	49	0	0	10,389	20
1982. . .	5,200	12	1,980	14	5	46	0	0	7,185	10
1983. . .	4,064	13	6,091	17	0	66	0	0	10,156	11
1984. . .	2,846	12	4,929	22	0	0	0	0	7,775	15
1985. . .	7,953	15	5,908	16	8	56	0	0	13,868	11
1986. . .	19,454	10	11,418	10	2	71	0	0	30,874	7
1987. . .	9,278	11	3,097	15	2	57	0	0	12,377	9
1988. . .	5,598	8	1,940	16	2	31	0	0	7,540	7
1989. . .	6,507	8	4,877	7	10	20	0	0	11,395	6
1990. . .	4,178	8	5,993	7	1	79	0	0	10,172	5
1991. . .	10,032	6	6,811	6	13	34	0	0	16,855	5
1992. . .	5,392	8	4,621	8	65	19	0	0	10,078	5
1993. . .	4,337	8	2,723	8	17	24	0	0	7,077	6
1994. . .	2,431	7	3,192	13	39	41	0	0	5,662	8
1995. . .	2,572	7	1,111	20	5	27	0	0	3,688	8
1996. . .	3,533	9	1,321	13	4	34	0	0	4,858	7

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) WITH PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1981-1996 FOR THE
ATLANTIC AND GULF COASTS

YEAR	SHEEPSHEAD								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	0	0	7	72	311	19	832	16	1,150	13
1982. . .	0	0	0	0	1,149	15	1,937	9	3,087	8
1983. . .	0	0	3	63	600	23	3,075	16	3,678	14
1984. . .	0	0	0	0	1,142	15	2,660	11	3,803	9
1985. . .	0	0	0	100	527	17	1,839	13	2,366	11
1986. . .	0	0	1	100	921	13	2,096	23	3,018	16
1987. . .	0	0	12	71	1,280	14	1,577	8	2,870	8
1988. . .	0	0	1	49	939	12	3,356	7	4,296	6
1989. . .	0	0	5	91	714	18	3,128	9	3,847	8
1990. . .	0	0	2	93	860	10	2,071	11	2,933	8
1991. . .	0	0	1	74	1,270	9	2,240	10	3,510	7
1992. . .	0	0	10	65	1,535	8	4,389	5	5,933	4
1993. . .	0	0	1	74	1,263	14	4,329	5	5,593	5
1994. . .	0	0	4	78	1,715	8	2,663	5	4,383	5
1995. . .	0	0	14	42	1,538	8	3,552	6	5,118	5
1996. . .	0	0	2	59	944	6	2,593	5	3,542	4

YEAR	SOUTHERN FLOUNDER								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	0	0	0	0	122	30	740	20	862	18
1982. . .	0	0	158	56	620	54	1,620	19	2,398	19
1983. . .	0	0	0	0	428	14	2,305	31	2,733	26
1984. . .	0	0	1	100	444	10	602	18	1,048	11
1985. . .	0	0	3	62	610	12	659	18	1,272	11
1986. . .	0	0	10	33	489	13	2,499	18	2,998	15
1987. . .	0	0	0	0	623	39	389	10	1,013	24
1988. . .	0	0	25	49	359	10	953	14	1,337	10
1989. . .	0	0	2	65	403	14	630	29	1,035	18
1990. . .	0	0	0	0	406	10	1,168	17	1,574	13
1991. . .	0	0	2	59	432	8	839	9	1,274	6
1992. . .	0	0	30	48	501	6	616	7	1,148	5
1993. . .	0	0	2	73	509	6	572	8	1,083	5
1994. . .	0	0	0	0	830	6	539	7	1,369	4
1995. . .	0	0	0	0	740	7	706	6	1,446	5
1996. . .	0	0	1	59	454	7	738	7	1,192	5

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) WITH PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1981-1996 FOR THE
ATLANTIC AND GULF COASTS

YEAR	SPANISH MACKEREL								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	4	100	0	0	806	18	1,643	15	2,454	11
1982. . .	0	0	0	0	896	29	3,099	18	3,995	16
1983. . .	0	0	0	0	135	24	3,307	24	3,442	23
1984. . .	0	0	0	0	976	31	819	16	1,795	18
1985. . .	0	0	0	0	526	20	1,126	11	1,652	10
1986. . .	0	0	9	59	1,108	16	10,388	12	11,505	11
1987. . .	0	0	25	45	1,065	7	2,192	8	3,281	6
1988. . .	0	0	102	38	1,697	6	2,122	8	3,921	5
1989. . .	0	100	107	24	1,244	8	1,579	7	2,930	5
1990. . .	0	85	91	21	1,299	6	3,665	9	5,056	7
1991. . .	12	31	178	14	1,672	5	2,924	9	4,786	6
1992. . .	1	100	106	16	1,474	4	3,994	5	5,575	4
1993. . .	1	62	197	14	949	6	2,506	6	3,653	4
1994. . .	0	0	341	13	1,502	6	2,007	5	3,850	4
1995. . .	0	0	147	23	847	6	1,574	9	2,568	6
1996. . .	0	0	100	35	1,069	6	1,818	7	2,988	5
	SPOT								TOTAL	
YEAR	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	0	0	22,965	17	6,398	18	188	34	29,551	13
1982. . .	0	0	12,137	11	7,597	9	154	26	19,888	8
1983. . .	0	0	17,562	17	7,504	13	411	66	25,477	13
1984. . .	0	0	6,190	10	5,691	12	20	60	11,901	8
1985. . .	0	0	9,361	7	13,201	11	41	52	22,603	7
1986. . .	0	0	13,095	7	6,067	14	179	40	19,341	7
1987. . .	0	0	9,031	7	3,866	7	123	28	13,021	5
1988. . .	0	0	4,252	11	6,464	11	99	41	10,814	8
1989. . .	0	0	8,211	5	4,793	7	52	66	13,057	4
1990. . .	0	0	13,822	6	3,124	7	424	52	17,371	5
1991. . .	0	0	20,205	6	4,425	6	413	42	25,043	5
1992. . .	0	0	10,698	9	4,047	6	229	39	14,974	6
1993. . .	0	0	7,713	8	5,562	7	988	33	14,263	6
1994. . .	0	0	8,815	5	9,449	6	227	33	18,491	4
1995. . .	0	0	5,343	8	6,039	6	185	29	11,567	5
1996. . .	0	0	2,668	10	4,630	9	66	27	7,364	7

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) WITH PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1981-1996 FOR THE
ATLANTIC AND GULF COASTS

YEAR	SPOTTED SEATROUT								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	0	0	0	0	1,068	21	5,048	12	6,116	11
1982. . .	0	0	0	0	1,812	20	12,843	9	14,654	8
1983. . .	0	0	0	0	1,614	14	13,109	9	14,723	8
1984. . .	0	0	0	0	1,168	11	11,434	11	12,602	10
1985. . .	0	0	0	0	1,843	13	9,501	10	11,344	9
1986. . .	0	0	132	19	2,061	10	24,475	15	26,668	13
1987. . .	0	0	77	41	2,382	8	19,310	4	21,768	4
1988. . .	0	0	485	19	2,264	9	19,276	3	22,026	3
1989. . .	0	0	283	15	1,494	7	18,814	5	20,591	4
1990. . .	0	0	117	23	1,420	10	11,862	4	13,399	4
1991. . .	0	0	150	16	3,726	7	26,054	4	29,931	4
1992. . .	0	0	55	20	2,262	6	19,986	3	22,304	3
1993. . .	0	0	176	16	2,336	5	19,026	3	21,538	3
1994. . .	0	0	425	11	2,319	6	19,438	3	22,181	3
1995. . .	0	0	579	19	3,425	5	20,610	3	24,615	3
1996. . .	0	0	304	19	1,976	5	18,282	3	20,563	3
	STRIPED BASS								TOTAL	
YEAR	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	67	23	244	18	557	57	0	100	869	37
1982. . .	790	51	211	24	0	0	48	54	1,048	39
1983. . .	135	24	548	28	12	70	0	0	695	22
1984. . .	227	37	310	18	7	58	8	58	553	18
1985. . .	255	28	253	22	46	48	35	49	590	16
1986. . .	494	35	602	23	15	47	32	34	1,142	20
1987. . .	268	17	484	20	1	42	7	63	760	14
1988. . .	299	13	776	37	23	28	35	32	1,133	26
1989. . .	401	10	837	27	4	50	15	44	1,257	18
1990. . .	559	10	1,257	11	0	0	157	26	1,974	8
1991. . .	902	16	2,421	11	12	75	97	24	3,432	9
1992. . .	1,341	8	2,326	8	11	56	162	22	3,840	6
1993. . .	1,692	9	3,080	9	13	40	15	25	4,900	6
1994. . .	3,243	7	5,241	9	22	23	15	34	8,636	6
1995. . .	5,190	7	5,405	8	63	13	30	30	10,839	5
1996. . .	6,799	8	6,987	7	297	9	18	24	14,101	5

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) WITH PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1981-1996 FOR THE
ATLANTIC AND GULF COASTS

YEAR	SUMMER FLOUNDER								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	351	23	12,286	8	966	20	0	0	13,603	8
1982. . .	1,788	13	19,256	32	2,547	14	0	0	23,591	26
1983. . .	1,240	17	29,435	8	1,435	17	0	0	32,110	7
1984. . .	1,003	13	26,729	7	2,167	22	0	0	29,900	6
1985. . .	430	31	11,975	12	1,121	16	0	0	13,526	10
1986. . .	4,072	16	19,946	6	1,289	26	0	0	25,316	5
1987. . .	945	13	19,450	4	686	14	0	0	21,082	4
1988. . .	577	11	15,089	4	1,556	11	0	0	17,223	3
1989. . .	179	12	1,980	6	534	11	0	0	2,694	5
1990. . .	213	13	7,613	4	1,288	9	0	0	9,114	3
1991. . .	278	10	14,859	4	1,074	6	0	0	16,211	4
1992. . .	430	9	11,054	4	435	9	0	0	11,918	3
1993. . .	551	9	21,815	4	553	7	0	0	22,919	4
1994. . .	1,019	7	16,317	4	404	7	0	0	17,741	3
1995. . .	833	9	15,244	4	162	9	0	0	16,239	4
1996. . .	1,426	7	17,981	3	394	7	0	0	19,801	3
	TAUTOG								TOTAL	
YEAR	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	594	24	1,444	19	12	48	0	0	2,051	15
1982. . .	1,545	14	1,719	13	15	76	0	0	3,279	9
1983. . .	1,358	12	1,978	14	38	67	0	0	3,375	9
1984. . .	1,371	11	1,394	13	0	0	0	0	2,764	9
1985. . .	493	15	2,723	15	9	61	0	0	3,224	13
1986. . .	3,457	11	4,655	19	14	70	0	0	8,126	12
1987. . .	1,312	14	3,416	11	4	41	0	0	4,732	9
1988. . .	1,485	11	2,782	11	4	53	0	0	4,272	8
1989. . .	870	9	2,709	7	16	23	0	0	3,594	6
1990. . .	625	8	3,090	6	7	34	0	0	3,737	5
1991. . .	977	9	4,203	5	7	44	0	0	5,187	5
1992. . .	1,241	10	2,945	7	9	30	0	0	4,195	6
1993. . .	718	8	3,491	7	5	22	0	0	4,215	6
1994. . .	729	10	1,921	8	3	32	0	0	2,653	7
1995. . .	583	11	3,228	8	4	31	0	0	3,816	7
1996. . .	547	9	1,726	8	7	31	0	0	2,279	6

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) WITH PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1981-1996 FOR THE
ATLANTIC AND GULF COASTS

YEAR	VERMILION SNAPPER								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	0	0	0	0	20	38	132	20	151	18
1982. . .	0	0	0	0	351	30	518	20	869	17
1983. . .	0	0	0	0	319	39	137	16	456	28
1984. . .	0	0	0	0	267	19	193	22	460	14
1985. . .	0	0	0	0	676	26	352	33	1,028	21
1986. . .	0	0	0	0	56	32	658	22	714	20
1987. . .	0	0	0	0	130	36	700	33	831	28
1988. . .	0	0	0	0	150	23	933	14	1,083	12
1989. . .	0	0	0	0	294	20	568	17	861	13
1990. . .	0	0	0	0	190	30	593	20	783	17
1991. . .	0	0	0	0	213	25	1,020	15	1,233	13
1992. . .	0	0	0	0	138	19	812	8	950	8
1993. . .	0	0	0	0	139	17	1,090	8	1,228	7
1994. . .	0	0	0	0	119	13	706	9	826	8
1995. . .	0	0	0	0	171	23	1,029	8	1,200	8
1996. . .	0	0	0	0	110	18	357	9	467	8

YEAR	WEAKFISH								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	46	31	9,341	35	243	33	0	0	9,629	34
1982. . .	30	49	1,709	16	305	33	0	0	2,046	14
1983. . .	84	52	5,095	14	737	21	0	0	5,916	12
1984. . .	9	65	2,744	14	1,016	29	0	0	3,769	13
1985. . .	20	55	2,422	10	334	29	0	0	2,776	9
1986. . .	12	54	9,745	8	1,217	21	0	0	10,974	7
1987. . .	1	59	4,915	11	804	17	0	0	5,720	10
1988. . .	1	100	5,796	12	650	15	0	0	6,446	11
1989. . .	0	0	1,292	9	382	12	0	0	1,675	7
1990. . .	0	63	1,472	6	199	15	0	0	1,672	6
1991. . .	21	38	2,253	8	328	18	0	0	2,601	7
1992. . .	10	65	1,456	8	201	11	0	0	1,668	7
1993. . .	2	43	1,828	7	388	10	0	0	2,219	6
1994. . .	1	100	4,290	6	638	9	0	0	4,929	5
1995. . .	2	53	5,359	6	378	10	0	0	5,739	5
1996. . .	1	53	7,250	5	343	10	0	0	7,594	5

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) WITH PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1981-1996 FOR THE
ATLANTIC AND GULF COASTS

YEAR	WINTER FLOUNDER								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	7,740	12	9,719	11	0	0	0	0	17,459	8
1982. . .	11,531	28	7,055	10	0	0	0	0	18,587	18
1983. . .	5,027	9	8,134	11	1	100	0	0	13,163	8
1984. . .	4,854	9	15,032	11	0	0	0	0	19,886	8
1985. . .	6,953	12	14,612	18	0	0	0	0	21,566	13
1986. . .	4,702	20	5,582	7	0	0	0	0	10,284	10
1987. . .	4,980	12	7,289	10	0	0	0	0	12,269	8
1988. . .	2,932	13	8,186	10	0	0	0	0	11,118	8
1989. . .	3,835	25	4,233	29	0	0	0	0	8,068	19
1990. . .	1,816	11	2,816	7	0	0	0	0	4,632	6
1991. . .	849	11	3,713	10	0	0	0	0	4,562	9
1992. . .	413	10	1,131	10	0	0	0	0	1,544	8
1993. . .	651	9	2,930	23	0	0	0	0	3,582	19
1994. . .	486	9	1,814	13	0	0	0	0	2,300	11
1995. . .	473	14	1,851	10	0	0	0	0	2,324	9
1996. . .	400	10	2,514	14	0	0	0	0	2,913	12
	ALL FISHES									
YEAR	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)		TOTAL	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----NUMBERS IN THOUSANDS-----									
1981. . .	36,982	5	100,820	7	44,482	5	87,391	8	269,674	4
1982. . .	46,749	8	81,150	9	64,150	6	113,332	3	305,381	3
1983. . .	35,200	8	125,023	4	62,990	3	146,166	4	369,379	2
1984. . .	24,583	4	101,110	3	59,767	3	133,865	4	319,325	2
1985. . .	41,080	8	90,846	4	67,175	5	101,201	5	300,302	3
1986. . .	49,886	5	153,940	4	59,416	5	144,077	3	407,319	2
1987. . .	34,294	5	99,922	3	50,300	3	101,561	2	286,078	2
1988. . .	25,723	6	77,895	3	56,083	3	130,954	2	290,654	1
1989. . .	24,575	5	64,578	3	46,053	2	113,907	3	249,113	2
1990. . .	18,654	3	84,593	2	40,779	2	106,377	3	250,402	2
1991. . .	26,689	4	125,999	2	54,952	2	177,341	3	384,980	1
1992. . .	17,738	4	75,026	2	54,094	2	145,025	2	291,884	1
1993. . .	20,991	3	97,574	2	50,887	2	147,332	2	316,784	1
1994. . .	25,880	8	94,945	2	72,173	1	148,856	3	341,854	1
1995. . .	21,983	5	88,522	2	65,240	1	135,781	3	311,526	1
1996. . .	23,427	4	86,419	2	51,257	2	118,625	2	279,728	1

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	ATLANTIC COD								TOTAL	
	NORTH ATLANTIC		MID-ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----THOUSANDS OF POUNDS-----									
1981. . .	15,182	22	2,542	16	0	0	0	0	17,725	19
1982. . .	12,464	26	9,070	34	0	0	0	0	21,534	21
1983. . .	13,112	22	1,472	38	0	0	0	0	14,584	20
1984. . .	5,425	12	515	26	0	0	0	0	5,940	11
1985. . .	22,525	58	554	26	0	0	0	0	23,078	56
1986. . .	7,237	34	290	22	0	0	0	0	7,527	33
1987. . .	8,135	20	852	26	0	0	0	0	8,987	18
1988. . .	8,186	20	3,919	22	0	0	0	0	12,105	15
1989. . .	5,155	12	1,955	21	0	0	0	0	7,110	10
1990. . .	6,790	17	1,121	18	0	0	0	0	7,911	15
1991. . .	8,844	17	463	23	0	0	0	0	9,307	17
1992. . .	1,906	18	430	26	0	0	0	0	2,335	16
1993. . .	5,190	17	1,949	20	0	0	0	0	7,139	14
1994. . .	4,083	25	203	27	0	0	0	0	4,285	24
1995. . .	3,437	20	1,164	17	0	0	0	0	4,601	16
1996. . .	3,260	21	72	27	0	0	0	0	3,332	20

YEAR	ATLANTIC CROAKER								TOTAL	
	NORTH ATLANTIC		MID-ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----THOUSANDS OF POUNDS-----									
1981. . .	0	0	538	19	809	17	1,735	19	3,082	12
1982. . .	0	0	526	58	1,132	17	3,143	20	4,800	15
1983. . .	0	0	518	25	946	21	1,828	14	3,292	11
1984. . .	0	0	721	17	2,684	19	1,419	18	4,824	12
1985. . .	0	0	861	13	1,076	15	1,228	15	3,164	8
1986. . .	0	0	2,153	11	3,105	29	2,806	14	8,064	13
1987. . .	0	0	1,498	9	1,437	18	1,193	22	4,128	9
1988. . .	0	0	3,318	13	1,327	14	1,643	39	6,288	13
1989. . .	0	0	1,349	8	1,029	10	449	19	2,827	6
1990. . .	0	0	913	13	804	10	771	29	2,488	10
1991. . .	0	0	1,860	11	688	11	1,888	44	4,437	19
1992. . .	0	0	1,826	10	802	7	569	13	3,197	7
1993. . .	0	0	2,481	9	537	8	593	10	3,611	6
1994. . .	0	0	4,019	6	851	9	602	17	5,472	5
1995. . .	0	0	3,374	8	661	18	392	18	4,426	7
1996. . .	0	0	3,815	8	413	9	433	12	4,661	7

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	ATLANTIC MACKEREL								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----THOUSANDS OF POUNDS-----									
1981. . .	1,911	22	5,166	21	0	0	0	0	7,077	16
1982. . .	844	31	1,781	28	0	0	0	0	2,625	22
1983. . .	1,093	19	5,487	34	38	72	0	0	6,618	28
1984. . .	1,726	17	3,387	27	0	0	0	0	5,113	19
1985. . .	4,197	31	1,784	76	0	0	0	0	5,982	32
1986. . .	2,128	32	7,183	31	0	0	0	0	9,311	25
1987. . .	2,623	23	6,265	23	0	0	0	0	8,889	17
1988. . .	5,669	21	1,511	42	18	0	0	0	7,198	18
1989. . .	2,444	12	1,495	24	0	0	0	0	3,939	12
1990. . .	2,638	14	1,478	26	0	0	0	0	4,116	13
1991. . .	3,576	17	2,080	21	0	0	0	0	5,657	13
1992. . .	530	14	96	35	0	0	0	0	629	13
1993. . .	1,255	12	66	44	0	0	0	0	1,326	12
1994. . .	3,675	16	85	52	0	0	0	0	3,760	16
1995. . .	1,847	13	907	36	0	0	0	0	2,754	15
1996. . .	2,699	12	422	25	2	59	0	0	3,123	11

YEAR	BLACK DRUM								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----THOUSANDS OF POUNDS-----									
1981. . .	0	0	95	0	122	21	1,065	18	1,283	15
1982. . .	0	0	0	0	276	26	2,600	18	2,876	16
1983. . .	0	0	1,378	21	397	22	3,020	19	4,796	14
1984. . .	0	0	39	0	586	23	1,385	22	2,011	16
1985. . .	0	0	345	36	572	21	1,506	23	2,424	16
1986. . .	0	0	722	20	469	21	2,817	19	4,008	14
1987. . .	0	0	463	32	388	17	3,799	35	4,651	29
1988. . .	0	0	36	0	428	20	2,222	12	2,686	11
1989. . .	0	0	247	29	222	37	1,903	16	2,372	14
1990. . .	0	0	11	79	181	36	832	22	1,023	19
1991. . .	0	0	84	1	549	20	1,219	22	1,852	16
1992. . .	0	0	238	39	566	15	1,549	8	2,352	8
1993. . .	0	0	2	42	428	13	1,478	13	1,908	11
1994. . .	0	0	3	74	693	13	1,177	20	1,873	13
1995. . .	0	0	155	42	658	16	1,307	9	2,121	8
1996. . .	0	0	99	67	568	13	1,159	8	1,826	8

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	BLACK SEA BASS								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----THOUSANDS OF POUNDS-----									
1981. . .	143	15	1,060	16	759	19	265	75	2,229	13
1982. . .	319	26	9,568	36	1,872	17	404	20	12,163	28
1983. . .	294	23	3,760	21	907	21	128	26	5,088	16
1984. . .	66	31	1,165	14	2,333	16	197	24	3,761	11
1985. . .	48	37	2,036	14	1,328	16	1,834	34	5,246	14
1986. . .	639	22	11,745	22	475	14	1,177	19	14,037	18
1987. . .	141	39	1,777	14	1,043	14	812	19	3,773	9
1988. . .	245	28	2,610	16	1,472	33	1,361	12	5,687	12
1989. . .	98	20	3,182	7	1,155	21	1,765	14	6,200	7
1990. . .	47	24	2,705	9	546	21	607	18	3,905	7
1991. . .	63	42	4,070	11	853	15	488	14	5,475	8
1992. . .	30	18	2,570	8	727	10	417	10	3,744	6
1993. . .	49	16	4,776	22	560	16	509	16	5,894	18
1994. . .	37	53	2,890	13	623	17	531	11	4,081	10
1995. . .	64	27	6,099	14	588	12	288	11	7,040	12
1996. . .	85	19	5,812	15	654	13	249	11	6,801	13

YEAR	BLUEFISH								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----THOUSANDS OF POUNDS-----									
1981. . .	29,632	22	59,148	7	6,507	21	580	34	95,867	8
1982. . .	41,226	19	34,978	13	6,802	18	418	27	83,424	11
1983. . .	33,988	22	38,431	15	16,703	32	3,589	32	92,711	12
1984. . .	18,985	13	38,066	12	10,402	17	880	78	68,333	8
1985. . .	17,205	21	28,339	13	6,970	22	665	32	53,180	10
1986. . .	38,718	9	48,710	10	5,459	13	856	25	93,742	6
1987. . .	20,930	10	48,407	6	7,316	12	551	18	77,204	5
1988. . .	11,726	7	27,996	7	8,501	14	1,171	13	49,393	5
1989. . .	11,332	10	23,183	5	4,744	13	1,724	25	40,984	5
1990. . .	10,487	9	16,697	5	3,372	8	356	18	30,913	4
1991. . .	12,199	8	17,672	6	3,127	10	969	28	33,966	4
1992. . .	8,414	8	13,365	6	2,496	10	506	15	24,782	4
1993. . .	9,209	6	8,735	7	2,348	7	349	22	20,641	4
1994. . .	7,996	8	6,284	8	1,261	6	451	21	15,992	5
1995. . .	5,992	8	6,973	9	1,209	9	600	26	14,775	5
1996. . .	6,644	14	7,050	10	1,040	8	354	14	15,089	8

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

51

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	DOLPHIN								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----THOUSANDS OF POUNDS-----									
1981. . .	0	0	0	0	4,918	23	550	20	5,469	21
1982. . .	0	0	1	0	3,788	14	3,249	38	7,038	19
1983. . .	0	0	51	38	6,152	17	665	24	6,868	15
1984. . .	0	0	0	0	3,423	19	983	30	4,406	16
1985. . .	0	0	79	31	5,537	23	1,280	30	6,895	20
1986. . .	0	0	183	37	6,784	17	2,984	22	9,952	14
1987. . .	0	0	73	32	4,350	11	2,739	22	7,162	11
1988. . .	1	0	145	0	6,302	14	1,158	18	7,606	12
1989. . .	0	0	806	24	9,810	9	2,882	20	13,499	8
1990. . .	0	0	349	32	7,331	13	5,096	30	12,777	14
1991. . .	8	0	555	18	11,198	8	5,448	15	17,209	7
1992. . .	0	0	692	29	5,154	8	3,945	23	9,791	10
1993. . .	143	21	1,783	40	5,368	6	3,524	13	10,818	9
1994. . .	0	0	393	30	9,619	8	2,765	15	12,778	7
1995. . .	0	0	754	27	12,142	5	6,896	9	19,792	5
1996. . .	0	0	522	49	7,387	6	4,640	12	12,549	6

GAG										TOTAL	
YEAR	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)				
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	
	-----THOUSANDS OF POUNDS-----										
1981. . .	0	0	0	0	86	50	332	22	418	20	
1982. . .	0	0	0	0	3	0	1,308	20	1,311	20	
1983. . .	0	0	0	0	91	59	1,483	18	1,574	17	
1984. . .	0	0	0	0	406	32	2,642	62	3,048	54	
1985. . .	0	0	0	0	161	36	1,667	22	1,828	21	
1986. . .	0	0	0	0	45	49	627	22	672	21	
1987. . .	0	0	0	0	504	36	978	15	1,482	16	
1988. . .	0	0	0	0	222	22	1,410	18	1,632	16	
1989. . .	0	0	0	0	430	26	960	16	1,391	14	
1990. . .	0	0	0	0	349	46	1,432	28	1,781	24	
1991. . .	0	0	0	0	220	23	2,114	16	2,334	15	
1992. . .	0	0	0	0	476	16	1,729	9	2,205	8	
1993. . .	0	0	0	0	544	22	2,282	8	2,827	8	
1994. . .	0	0	0	0	561	21	1,947	9	2,507	9	
1995. . .	0	0	0	0	303	19	2,628	8	2,930	8	
1996. . .	0	0	0	0	278	21	1,964	8	2,242	8	

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	GRAY SNAPPER								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	----- THOUSANDS OF POUNDS -----									
1981. . .	0	0	0	0	601	52	671	27	1,272	28
1982. . .	0	0	0	0	140	20	844	17	983	15
1983. . .	0	0	0	0	282	24	945	21	1,227	17
1984. . .	0	0	0	0	219	20	3,623	30	3,843	28
1985. . .	0	0	0	0	733	30	1,538	24	2,272	19
1986. . .	0	0	0	0	172	20	1,148	17	1,320	15
1987. . .	0	0	0	0	281	22	1,161	37	1,442	30
1988. . .	0	0	0	0	342	15	746	16	1,089	12
1989. . .	0	0	0	0	234	15	1,356	12	1,590	11
1990. . .	0	0	0	0	245	19	1,144	19	1,389	16
1991. . .	0	0	0	0	366	16	1,690	12	2,056	10
1992. . .	0	0	0	0	369	12	1,091	7	1,460	6
1993. . .	0	0	0	0	245	13	1,124	8	1,369	7
1994. . .	0	0	0	0	281	10	1,136	9	1,417	8
1995. . .	0	0	0	0	320	14	1,058	8	1,378	7
1996. . .	0	0	0	0	231	13	955	8	1,187	7

YEAR	GRAY TRIGGERFISH								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	----- THOUSANDS OF POUNDS -----									
1981. . .	0	0	0	0	82	38	648	39	730	35
1982. . .	0	0	1	0	139	26	1,010	24	1,151	22
1983. . .	0	0	12	72	64	43	239	18	315	17
1984. . .	6	0	0	0	78	21	112	21	196	15
1985. . .	0	0	24	82	74	29	183	28	281	21
1986. . .	7	0	17	38	49	26	1,338	25	1,411	23
1987. . .	0	0	69	40	36	25	1,666	33	1,772	31
1988. . .	0	0	6	78	72	24	1,366	15	1,445	14
1989. . .	3	0	119	34	257	35	1,422	15	1,800	13
1990. . .	0	0	52	23	208	28	2,095	18	2,355	16
1991. . .	3	53	137	26	165	21	2,121	14	2,426	13
1992. . .	0	0	32	25	273	17	1,325	9	1,631	8
1993. . .	1	0	106	25	177	17	1,182	11	1,465	9
1994. . .	2	78	39	32	142	13	1,165	11	1,348	10
1995. . .	0	0	65	32	97	15	1,017	9	1,179	8
1996. . .	1	65	155	43	183	15	496	11	836	11

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	GREATER AMBERJACK								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----THOUSANDS OF POUNDS-----									
1981. . .	0	0	0	0	1,344	17	568	43	1,912	17
1982. . .	0	0	0	0	494	48	3,380	20	3,874	18
1983. . .	0	0	0	0	207	25	2,015	18	2,222	17
1984. . .	0	0	335	0	1,439	26	955	27	2,730	17
1985. . .	0	0	0	0	1,347	25	1,323	20	2,670	16
1986. . .	0	0	664	30	1,568	21	7,540	20	9,773	16
1987. . .	0	0	242	60	2,641	42	5,240	20	8,123	19
1988. . .	0	0	68	0	1,787	24	2,501	23	4,356	16
1989. . .	0	0	207	39	1,626	29	4,563	22	6,395	17
1990. . .	0	0	357	51	981	22	690	33	2,027	18
1991. . .	0	0	20	52	1,042	20	2,891	19	3,953	15
1992. . .	0	0	25	63	1,102	13	2,659	12	3,787	9
1993. . .	0	0	254	23	578	21	3,498	17	4,330	14
1994. . .	0	0	0	0	1,626	19	1,562	16	3,188	12
1995. . .	0	0	0	0	623	21	811	15	1,434	13
1996. . .	0	0	6	57	970	14	994	10	1,970	9

YEAR	KING MACKEREL								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----THOUSANDS OF POUNDS-----									
1981. . .	0	0	10	0	4,394	30	1,622	8	6,026	22
1982. . .	0	0	0	0	6,807	12	5,755	71	12,562	33
1983. . .	0	0	0	0	7,438	21	2,077	32	9,515	18
1984. . .	0	0	0	0	6,612	16	3,133	27	9,744	14
1985. . .	0	0	6	0	7,562	24	1,104	19	8,671	21
1986. . .	0	0	109	34	6,206	10	1,723	19	8,037	9
1987. . .	0	0	44	41	5,402	11	2,878	11	8,324	8
1988. . .	0	0	137	29	5,810	11	2,919	12	8,866	8
1989. . .	0	0	67	20	3,917	10	2,630	16	6,614	9
1990. . .	0	0	30	0	4,225	8	3,168	14	7,422	8
1991. . .	2	0	53	31	5,183	7	4,325	13	9,563	7
1992. . .	0	0	58	30	7,017	9	3,135	9	10,210	7
1993. . .	0	0	141	50	4,285	7	4,119	8	8,545	5
1994. . .	0	0	11	41	4,176	7	4,634	8	8,821	5
1995. . .	0	0	15	0	5,008	7	4,697	7	9,719	5
1996. . .	0	0	7	71	4,314	6	5,700	7	10,020	5

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	RED DRUM								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----THOUSANDS OF POUNDS-----									
1981. . .	0	0	352	60	409	38	3,127	14	3,888	13
1982. . .	0	0	0	0	911	20	6,415	18	7,326	16
1983. . .	0	0	54	44	1,075	16	6,878	13	8,008	11
1984. . .	0	0	1	0	2,615	41	6,879	15	9,496	15
1985. . .	0	0	0	0	2,203	32	5,435	14	7,638	13
1986. . .	0	0	900	57	1,065	13	5,189	9	7,154	10
1987. . .	0	0	44	90	1,592	12	4,569	11	6,206	9
1988. . .	0	0	9	71	1,900	16	2,932	8	4,841	8
1989. . .	0	0	30	34	885	12	5,741	8	6,655	7
1990. . .	0	0	3	100	1,355	29	4,053	9	5,411	10
1991. . .	0	0	36	32	1,247	12	5,362	9	6,645	8
1992. . .	0	0	55	44	1,116	10	7,801	4	8,972	4
1993. . .	0	0	46	11	1,168	8	8,710	5	9,924	5
1994. . .	0	0	4	0	1,439	9	7,528	5	8,970	4
1995. . .	0	0	66	0	1,661	11	11,939	4	13,665	4
1996. . .	0	0	2	0	1,333	8	11,708	5	13,043	4
	-----THOUSANDS OF POUNDS-----									
YEAR	RED SNAPPER								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----THOUSANDS OF POUNDS-----									
1981. . .	0	0	0	0	383	33	3,999	26	4,382	24
1982. . .	0	0	0	0	158	27	2,198	19	2,356	18
1983. . .	0	0	0	0	199	27	4,128	20	4,327	20
1984. . .	0	0	0	0	454	17	1,426	23	1,880	18
1985. . .	0	0	0	0	1,336	29	2,457	22	3,792	18
1986. . .	0	0	0	0	114	27	2,425	17	2,538	17
1987. . .	0	0	0	0	134	20	1,647	27	1,780	25
1988. . .	0	0	0	0	225	23	1,899	22	2,124	19
1989. . .	0	0	0	0	269	28	1,814	22	2,083	19
1990. . .	0	0	0	0	115	8	1,060	16	1,175	14
1991. . .	0	0	0	0	132	34	1,503	13	1,635	13
1992. . .	0	0	0	0	618	38	2,613	8	3,231	10
1993. . .	0	0	0	0	142	27	4,136	7	4,278	7
1994. . .	0	0	0	0	201	36	3,734	8	3,935	8
1995. . .	0	0	0	0	67	20	2,876	8	2,943	8
1996. . .	0	0	0	0	102	35	2,617	8	2,719	8

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

55

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	SAND SEATROUT								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	----- THOUSANDS OF POUNDS -----									
1981. . .	0	0	0	0	0	0	4,073	41	4,073	41
1982. . .	0	0	0	0	0	0	1,249	18	1,249	18
1983. . .	0	0	0	0	0	0	2,486	22	2,486	22
1984. . .	0	0	0	0	0	0	3,032	27	3,032	27
1985. . .	0	0	0	0	0	0	5,094	20	5,094	20
1986. . .	0	0	0	0	0	0	3,047	9	3,047	9
1987. . .	0	0	0	0	0	0	2,014	10	2,014	10
1988. . .	0	0	0	0	0	0	1,561	11	1,561	11
1989. . .	0	0	0	0	0	0	1,455	18	1,455	18
1990. . .	0	0	0	0	0	0	1,835	14	1,835	14
1991. . .	0	0	0	0	0	0	2,709	13	2,709	13
1992. . .	0	0	0	0	0	0	1,643	10	1,643	10
1993. . .	0	0	0	0	0	0	2,090	10	2,090	10
1994. . .	0	0	0	0	0	0	2,884	6	2,884	6
1995. . .	0	0	0	0	0	0	2,002	8	2,002	8
1996. . .	0	0	0	0	0	0	1,889	8	1,889	8

YEAR	SCUP								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	----- THOUSANDS OF POUNDS -----									
1981. . .	2,586	15	3,225	44	3	1	0	0	5,815	25
1982. . .	4,281	14	924	24	2	62	0	0	5,206	12
1983. . .	2,502	14	3,750	21	0	69	0	0	6,252	14
1984. . .	1,185	16	1,230	27	0	0	0	0	2,416	16
1985. . .	3,243	19	2,850	18	3	78	0	0	6,096	13
1986. . .	7,525	13	4,080	14	5	0	0	0	11,610	10
1987. . .	4,853	17	1,343	20	1	0	0	0	6,197	14
1988. . .	3,383	11	883	25	1	9	0	0	4,268	10
1989. . .	3,564	11	1,990	9	4	21	0	0	5,558	8
1990. . .	1,746	14	2,394	9	1	0	0	0	4,140	8
1991. . .	5,003	8	3,082	9	3	35	0	0	8,088	6
1992. . .	2,300	10	2,102	11	10	21	0	0	4,412	8
1993. . .	2,275	13	920	12	4	18	0	0	3,198	10
1994. . .	1,542	16	1,076	16	10	57	0	0	2,629	12
1995. . .	1,013	13	299	29	1	54	0	0	1,313	12
1996. . .	1,618	10	621	14	0	0	0	0	2,239	8

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	SHEEPSHEAD								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	----- THOUSANDS OF POUNDS -----									
1981. . .	0	0	17	0	480	22	1,031	24	1,528	18
1982. . .	0	0	0	0	1,875	17	1,962	13	3,837	11
1983. . .	0	0	2	0	735	21	3,288	20	4,026	17
1984. . .	0	0	0	0	1,857	14	2,812	15	4,669	10
1985. . .	0	0	0	0	888	23	2,939	23	3,827	18
1986. . .	0	0	0	0	1,402	14	2,279	30	3,680	19
1987. . .	0	0	76	73	1,891	16	1,762	12	3,730	10
1988. . .	0	0	2	0	1,569	13	4,382	10	5,953	8
1989. . .	0	0	0	0	921	12	4,953	12	5,874	10
1990. . .	0	0	0	0	1,243	13	2,478	14	3,721	10
1991. . .	0	0	2	0	2,019	11	3,068	14	5,089	10
1992. . .	0	0	0	0	2,466	10	4,897	6	7,363	5
1993. . .	0	0	0	0	1,879	13	4,577	6	6,456	6
1994. . .	0	0	0	0	2,902	10	2,734	8	5,636	6
1995. . .	0	0	9	77	2,597	11	4,901	6	7,507	6
1996. . .	0	0	5	58	1,702	8	3,348	6	5,055	5

YEAR	SOUTHERN FLOUNDER								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	----- THOUSANDS OF POUNDS -----									
1981. . .	0	0	0	0	160	30	822	22	982	19
1982. . .	0	0	106	72	827	59	827	15	1,760	29
1983. . .	0	0	0	0	393	17	3,055	39	3,448	35
1984. . .	0	0	3	0	421	12	359	15	783	9
1985. . .	0	0	4	65	560	13	837	22	1,401	14
1986. . .	0	0	1	0	538	15	2,619	21	3,159	18
1987. . .	0	0	0	0	289	11	415	12	706	8
1988. . .	0	0	12	36	475	14	861	10	1,348	8
1989. . .	0	0	0	0	522	21	515	18	1,038	14
1990. . .	0	0	0	0	503	12	855	15	1,358	11
1991. . .	0	0	2	0	645	12	932	10	1,579	7
1992. . .	0	0	4	60	818	9	814	8	1,637	6
1993. . .	0	0	0	0	693	8	655	9	1,348	6
1994. . .	0	0	0	0	1,132	7	664	8	1,796	5
1995. . .	0	0	0	0	924	9	715	8	1,639	6
1996. . .	0	0	1	0	478	11	780	8	1,258	7

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

57

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	SPANISH MACKEREL								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----THOUSANDS OF POUNDS-----									
1981. . .	0	0	0	0	1,290	20	1,733	15	3,023	12
1982. . .	0	0	0	0	1,209	24	2,794	20	4,004	16
1983. . .	0	0	0	0	227	29	2,646	16	2,873	15
1984. . .	0	0	0	0	1,398	31	1,061	22	2,458	20
1985. . .	0	0	0	0	698	21	1,197	12	1,895	11
1986. . .	0	0	13	58	1,195	14	6,789	15	7,997	13
1987. . .	0	0	19	48	1,685	7	2,925	10	4,630	7
1988. . .	0	0	160	39	2,939	7	2,052	9	5,151	6
1989. . .	1	0	120	23	1,386	7	1,560	8	3,066	6
1990. . .	0	0	95	24	1,630	7	2,367	8	4,092	6
1991. . .	44	34	189	15	2,240	7	2,520	8	4,992	5
1992. . .	0	0	107	17	1,841	6	3,423	6	5,371	4
1993. . .	1	0	175	18	1,262	7	1,941	7	3,378	5
1994. . .	0	0	214	14	1,158	6	1,762	6	3,135	4
1995. . .	0	0	145	29	672	8	1,630	9	2,447	6
1996. . .	0	0	81	46	986	9	1,637	7	2,704	6
YEAR	SPOT								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----THOUSANDS OF POUNDS-----									
1981. . .	0	0	5,216	15	1,700	18	42	53	6,957	12
1982. . .	0	0	2,324	17	1,662	10	16	27	4,002	11
1983. . .	0	0	2,879	21	2,119	19	30	48	5,029	15
1984. . .	0	0	776	18	1,024	13	6	5	1,806	11
1985. . .	0	0	2,156	9	3,788	14	7	69	5,952	9
1986. . .	0	0	2,352	10	1,041	16	33	29	3,426	8
1987. . .	0	0	2,882	10	965	9	54	39	3,901	8
1988. . .	0	0	888	13	1,634	14	30	62	2,553	10
1989. . .	0	0	2,045	7	1,249	8	0	0	3,294	6
1990. . .	0	0	2,912	9	672	9	54	83	3,639	7
1991. . .	0	0	3,432	8	1,082	8	26	56	4,540	7
1992. . .	0	0	3,048	11	976	8	43	47	4,067	9
1993. . .	0	0	1,591	11	1,780	7	108	56	3,479	7
1994. . .	0	0	1,956	6	2,372	8	55	42	4,383	5
1995. . .	0	0	1,571	10	1,536	7	50	42	3,158	6
1996. . .	0	0	832	12	1,214	12	5	51	2,051	9

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

SPOTTED SEATROUT												
YEAR	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)		TOTAL			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)		
	-----THOUSANDS OF POUNDS-----											
1981. . .	0	0	0	0	1,184	33	4,652	14	5,836	13		
1982. . .	0	0	0	0	1,547	16	11,440	10	12,988	9		
1983. . .	0	0	0	0	1,343	16	11,161	11	12,505	10		
1984. . .	0	0	0	0	1,163	13	8,606	20	9,770	17		
1985. . .	0	0	0	0	2,065	14	6,471	12	8,536	10		
1986. . .	0	0	69	21	2,052	12	16,966	18	19,087	16		
1987. . .	0	0	61	31	2,334	10	11,865	5	14,260	5		
1988. . .	0	0	497	24	1,829	10	12,610	5	14,936	4		
1989. . .	0	0	297	15	1,474	9	12,798	8	14,569	7		
1990. . .	0	0	160	32	1,357	15	4,847	7	6,364	6		
1991. . .	0	0	157	19	3,085	10	12,052	6	15,294	5		
1992. . .	0	0	64	23	1,710	7	9,545	5	11,320	4		
1993. . .	0	0	214	22	1,554	7	8,295	5	10,064	4		
1994. . .	0	0	202	14	1,633	6	9,342	4	11,178	3		
1995. . .	0	0	178	18	2,030	8	10,361	5	12,569	4		
1996. . .	0	0	78	22	803	8	9,665	5	10,545	4		

STRIPED BASS												
YEAR	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)		TOTAL			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)		
	-----THOUSANDS OF POUNDS-----											
1981. . .	215	28	931	26	807	53	0	0	1,953	25		
1982. . .	2,134	52	388	33	0	0	1	0	2,523	44		
1983. . .	596	31	2,087	71	15	99	0	0	2,698	55		
1984. . .	138	50	1,139	43	5	7	1	0	1,284	38		
1985. . .	407	54	414	36	25	50	3	0	849	31		
1986. . .	418	31	686	39	4	43	20	49	1,128	26		
1987. . .	356	31	499	20	2	40	5	59	862	17		
1988. . .	591	20	665	27	28	33	38	34	1,321	16		
1989. . .	470	22	262	26	8	0	1	0	742	17		
1990. . .	657	24	1,569	14	0	0	69	27	2,295	12		
1991. . .	1,128	17	2,513	11	4	0	62	28	3,706	9		
1992. . .	1,524	18	2,494	13	21	15	28	36	4,067	10		
1993. . .	1,846	10	3,803	12	16	38	1	0	5,666	9		
1994. . .	2,284	10	4,443	9	77	31	9	37	6,813	7		
1995. . .	2,657	8	8,365	9	237	15	5	17	11,264	7		
1996. . .	3,441	9	10,885	6	288	13	6	36	14,619	5		

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

59

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	SUMMER FLOUNDER								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	----- THOUSANDS OF POUNDS -----									
1981. . .	389	34	9,221	9	488	24	0	0	10,098	8
1982. . .	2,310	16	14,314	32	1,640	23	0	0	18,264	25
1983. . .	1,322	17	26,100	8	586	21	0	0	28,008	7
1984. . .	900	16	16,559	8	1,378	29	0	0	18,837	8
1985. . .	744	34	10,883	12	863	21	0	0	12,490	11
1986. . .	5,880	19	10,817	9	1,177	44	0	0	17,885	9
1987. . .	1,338	20	10,634	10	257	11	0	0	12,228	9
1988. . .	712	12	13,302	4	644	9	0	0	14,658	4
1989. . .	316	17	2,559	7	301	13	0	0	3,176	6
1990. . .	235	21	4,376	5	531	11	0	0	5,142	4
1991. . .	356	14	7,370	4	432	16	0	0	8,158	4
1992. . .	430	13	6,459	5	267	8	0	0	7,157	4
1993. . .	552	11	7,812	5	479	7	0	0	8,844	4
1994. . .	980	9	7,886	4	481	7	0	0	9,347	4
1995. . .	858	11	4,394	5	251	23	0	0	5,503	5
1996. . .	1,232	8	8,777	4	407	7	0	0	10,416	3
YEAR	TAUTOG								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	----- THOUSANDS OF POUNDS -----									
1981. . .	1,698	26	2,417	24	1	0	0	0	4,116	18
1982. . .	4,615	15	3,707	14	16	67	0	0	8,338	10
1983. . .	2,911	14	2,818	19	21	67	0	0	5,751	12
1984. . .	3,277	16	2,104	20	0	0	0	0	5,381	12
1985. . .	1,077	16	3,221	17	7	65	0	0	4,305	14
1986. . .	10,744	14	6,159	13	4	60	0	0	16,906	10
1987. . .	3,365	17	5,515	12	8	0	0	0	8,889	10
1988. . .	3,478	18	5,819	17	5	33	0	0	9,302	13
1989. . .	2,413	11	3,935	9	31	35	0	0	6,379	7
1990. . .	1,485	11	3,669	9	3	31	0	0	5,156	7
1991. . .	2,459	11	5,622	7	25	54	0	0	8,105	6
1992. . .	3,374	14	4,285	10	13	35	0	0	7,671	8
1993. . .	1,673	10	4,244	11	10	64	0	0	5,927	8
1994. . .	1,119	14	2,346	19	3	0	0	0	3,468	13
1995. . .	959	16	3,641	10	3	33	0	0	4,604	9
1996. . .	918	13	2,336	13	12	31	0	0	3,266	10

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	VERMILION SNAPPER								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----THOUSANDS OF POUNDS-----									
1981. . .	0	0	0	0	5	43	86	21	91	20
1982. . .	0	0	0	0	233	34	271	20	504	19
1983. . .	0	0	0	0	416	45	64	19	480	39
1984. . .	0	0	0	0	210	17	155	21	365	13
1985. . .	0	0	0	0	435	26	246	64	681	29
1986. . .	0	0	0	0	11	31	932	40	944	39
1987. . .	0	0	0	0	207	41	491	30	699	24
1988. . .	0	0	0	0	135	28	467	17	602	14
1989. . .	0	0	0	0	106	23	411	20	517	17
1990. . .	0	0	0	0	121	28	518	26	639	22
1991. . .	0	0	0	0	105	26	829	22	934	20
1992. . .	0	0	0	0	118	22	602	10	720	9
1993. . .	0	0	0	0	98	23	759	11	857	10
1994. . .	0	0	0	0	73	19	608	13	681	12
1995. . .	0	0	0	0	44	21	564	11	608	10
1996. . .	0	0	0	0	79	45	229	14	309	15
	WEAKFISH								TOTAL	
YEAR	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	-----THOUSANDS OF POUNDS-----									
1981. . .	281	33	15,724	16	99	27	0	0	16,105	16
1982. . .	155	50	7,792	16	339	43	0	0	8,285	15
1983. . .	624	57	10,403	13	703	21	0	0	11,731	12
1984. . .	28	68	6,424	23	562	47	0	0	7,014	21
1985. . .	149	57	5,025	11	315	28	0	0	5,489	11
1986. . .	102	54	9,464	10	575	19	0	0	10,142	9
1987. . .	4	79	5,957	16	789	23	0	0	6,750	14
1988. . .	0	0	5,881	12	450	14	0	0	6,332	11
1989. . .	0	0	1,912	9	265	14	0	0	2,177	8
1990. . .	1	63	1,215	9	131	14	0	0	1,347	8
1991. . .	0	0	1,919	8	212	20	0	0	2,131	7
1992. . .	21	110	1,258	9	120	16	0	0	1,399	9
1993. . .	7	59	887	11	209	13	0	0	1,102	9
1994. . .	0	0	1,471	11	324	11	0	0	1,796	10
1995. . .	0	0	1,689	8	163	18	0	0	1,852	7
1996. . .	0	0	2,849	7	102	10	0	0	2,951	7

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

61

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	WINTER FLOUNDER								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	----- THOUSANDS OF POUNDS -----									
1981. . .	6,751	15	5,673	14	0	0	0	0	12,424	10
1982. . .	11,865	37	4,553	12	0	0	0	0	16,417	27
1983. . .	3,781	11	5,857	14	2	0	0	0	9,640	10
1984. . .	5,012	11	10,145	15	0	0	0	0	15,157	11
1985. . .	6,608	15	8,765	24	0	0	0	0	15,373	15
1986. . .	4,039	19	3,596	9	0	0	0	0	7,635	11
1987. . .	5,663	15	5,305	13	0	0	0	0	10,967	10
1988. . .	3,243	17	5,537	13	0	0	0	0	8,780	10
1989. . .	3,180	18	2,184	15	0	0	0	0	5,363	12
1990. . .	1,651	14	1,505	10	0	0	0	0	3,156	9
1991. . .	769	13	2,131	13	0	0	0	0	2,899	10
1992. . .	430	12	641	11	0	0	0	0	1,072	8
1993. . .	559	12	1,570	30	0	0	0	0	2,130	22
1994. . .	393	12	1,104	17	0	0	0	0	1,497	13
1995. . .	389	23	1,161	13	0	0	0	0	1,549	11
1996. . .	328	12	1,383	14	0	0	0	0	1,712	11

YEAR	ALL FISHES								TOTAL	
	NORTH ATLANTIC		MID ATLANTIC		SOUTH ATLANTIC		GULF OF MEXICO (1)			
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	----- THOUSANDS OF POUNDS -----									
1981. . .	68,790	11	118,575	5	37,873	7	52,978	6	278,215	4
1982. . .	85,706	11	105,417	8	48,533	4	75,703	7	315,360	4
1983. . .	68,382	12	124,645	6	65,202	10	80,920	5	339,150	4
1984. . .	39,631	7	100,531	6	50,050	5	71,753	7	261,966	3
1985. . .	59,426	23	79,398	7	59,956	7	65,446	5	264,227	6
1986. . .	81,972	6	135,525	5	53,561	5	96,564	5	367,623	3
1987. . .	55,168	6	116,717	4	51,555	5	66,536	4	289,976	2
1988. . .	39,726	6	85,891	4	54,851	4	70,845	3	251,314	2
1989. . .	33,100	5	76,967	4	46,353	3	66,904	3	223,324	2
1990. . .	28,887	8	56,797	4	35,772	4	51,548	4	173,004	2
1991. . .	35,631	6	65,186	3	47,656	3	79,768	3	228,241	2
1992. . .	21,169	5	47,334	3	44,967	3	68,931	2	182,401	2
1993. . .	24,298	5	55,082	4	37,346	2	68,519	2	185,244	2
1994. . .	23,915	6	45,859	3	50,089	3	63,572	2	183,436	1
1995. . .	19,788	6	58,870	8	50,444	2	73,055	2	202,157	3
1996. . .	21,286	6	55,744	3	43,757	3	64,567	2	185,354	2

(1) GULF OF MEXICO ESTIMATES DO NOT INCLUDE TEXAS DATA.

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) WITH PSE (%)
BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1996 FOR THE PACIFIC COAST.

YEAR	BARRED SANDBASS		BARRED SURFPERCH		BLACK ROCKFISH		BLUE ROCKFISH		BOCACCIO	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
-----NUMBERS IN THOUSANDS-----										
1993..	1,542	4	678	9	949	6	1,862	7	147	14
1994..	1,487	5	385	11	693	7	544	7	179	14
1995..	1,514	6	672	10	631	6	440	7	24	18
1996..	1,487	4	542	11	731	7	520	7	53	16
YEAR	BROWN ROCKFISH		CABEZON		CALIFORNIA HALIBUT		CANARY ROCKFISH		CHILIPEPPER ROCKF.	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
-----NUMBERS IN THOUSANDS-----										
1993..	154	9	109	7	347	7	231	7	46	25
1994..	67	14	76	9	491	6	178	8	56	18
1995..	80	11	85	11	924	6	201	10	28	26
1996..	121	10	127	9	712	6	107	9	22	21
YEAR	COPPER ROCKFISH		CORBINA		GOPHER ROCKFISH		GRASS ROCKFISH		KELP BASS	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
-----NUMBERS IN THOUSANDS-----										
1993..	156	9	17	18	299	10	32	13	2,610	5
1994..	159	11	26	17	216	10	17	17	1,848	4
1995..	77	10	57	17	92	12	15	18	1,599	6
1996..	229	7	30	15	121	10	17	16	1,556	5
YEAR	KELP GREENLING		LINGCOD		PACIFIC BARRACUDA		PACIFIC BONITO		PACIFIC COD	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
-----NUMBERS IN THOUSANDS-----										
1993..	209	8	381	5	1,250	6	630	7	0	0
1994..	101	9	262	6	1,765	6	346	10	1	63
1995..	95	9	243	6	1,379	6	100	13	0	0
1996..	240	7	371	5	514	6	125	11	11	45
YEAR	PAC. CHUB MACKEREL		PACIFIC SARDINE		PILE PERCH		QUILLBACK ROCKFISH		REDTAIL SURFPERCH	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
-----NUMBERS IN THOUSANDS-----										
1993..	4,651	4	329	17	33	19	34	34	69	17
1994..	5,313	4	368	42	31	13	9	14	90	17
1995..	5,146	5	73	38	29	25	5	24	91	14
1996..	5,507	4	271	22	157	22	61	11	110	22
YEAR	SHEEPHEAD (CAL.)		SILVER SURFPERCH		STRIPED BASS		STRIPED SEAPERCH		SURF SMELT	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
-----NUMBERS IN THOUSANDS-----										
1993..	68	11	110	17	101	13	132	9	1,632	26
1994..	87	11	46	19	115	12	73	13	1,202	28
1995..	60	14	57	16	151	12	98	19	1,413	25
1996..	77	12	60	20	174	9	286	12	4,807	25
YEAR	WHITE CROAKER		WHITE STURGEON		YELLOWTAIL		YELLOWTAIL ROCKF.		ALL FISH	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
-----NUMBERS IN THOUSANDS-----										
1993..	2,019	5	22	16	120	10	284	8	30,922	2
1994..	900	9	5	30	24	15	164	8	27,169	2
1995..	1,408	15	47	19	30	16	140	8	27,609	2
1996..	1,958	7	22	15	64	10	83	10	34,047	4

NOTE:--EST= ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

1993-1995 ESTIMATES DO NOT INCLUDE WASHINGTON STATE DATA.

U.S. MARINE RECREATIONAL FISHERIES

63

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS BY SPECIES, 1993-1996 FOR THE PACIFIC COAST.

YEAR	BARRED SANDBASS		BARRED SURFPERCH		BLACK ROCKFISH		BLUE ROCKFISH		BOCACCIO	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
-----THOUSANDS OF POUNDS-----										
1993. .	1,048	6	315	13	1,621	7	1,310	7	271	14
1994. .	1,034	7	167	14	1,150	8	503	8	424	17
1995. .	1,468	8	354	12	1,121	7	395	8	68	21
1996. .	1,198	6	306	13	1,405	8	503	8	163	19
YEAR	BROWN ROCKFISH		CABEZON		CALIFORNIA HALIBUT		CANARY ROCKFISH		CHILIPEPPER ROCKF.	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
-----THOUSANDS OF POUNDS-----										
1993. .	148	11	262	8	596	11	251	7	36	41
1994. .	59	14	171	9	790	9	184	8	50	20
1995. .	97	12	186	13	2,349	8	266	9	23	26
1996. .	109	11	280	10	1,619	9	136	9	31	28
YEAR	COPPER ROCKFISH		CORBINA		GOPHER ROCKFISH		GRASS ROCKFISH		KELP BASS	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
-----THOUSANDS OF POUNDS-----										
1993. .	218	10	12	21	224	11	38	17	1,434	6
1994. .	203	12	14	26	174	11	22	16	1,395	6
1995. .	116	12	37	21	82	13	15	17	1,131	7
1996. .	347	8	29	22	88	11	25	18	770	6
YEAR	KELP GREENLING		LINGCOD		PACIFIC BARRACUDA		PACIFIC BONITO		PACIFIC COD	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
-----THOUSANDS OF POUNDS-----										
1993. .	195	8	1,605	6	1,688	9	707	9	0	0
1994. .	95	9	906	8	2,016	8	519	10	1	72
1995. .	85	10	856	9	2,491	8	177	16	0	0
1996. .	221	8	1,172	7	996	9	87	18	14	44
YEAR	PAC. CHUB MACKEREL		PACIFIC SARDINE		PILE PERCH		QUILLBACK ROCKFISH		REDTAIL SURFPERCH	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
-----THOUSANDS OF POUNDS-----										
1993. .	1,373	6	51	20	37	23	94	41	58	19
1994. .	2,225	8	42	34	26	14	16	15	70	18
1995. .	2,163	8	4	69	20	23	8	20	62	15
1996. .	1,520	6	19	29	171	23	88	15	101	23
YEAR	SHEEPHEAD (CAL.)		SILVER SURFPERCH		STRIPED BASS		STRIPED SEAPERCH		SURF SMELT	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
-----THOUSANDS OF POUNDS-----										
1993. .	154	21	23	17	106	18	130	10	159	27
1994. .	234	17	10	21	104	19	61	16	90	28
1995. .	106	19	18	19	380	15	99	21	122	24
1996. .	170	16	18	23	351	12	282	14	538	27
YEAR	WHITE CROAKER		WHITE STURGEON		YELLOWTAIL		YELLOWTAIL ROCKF.		ALL FISH	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
-----THOUSANDS OF POUNDS-----										
1993. .	425	7	207	24	943	11	249	8	20,935	2
1994. .	174	15	44	36	209	18	179	8	17,924	2
1995. .	410	21	764	21	308	17	198	9	24,313	2
1996. .	659	9	543	16	497	12	106	14	22,963	2

NOTE:--EST= ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.

1993-1995 ESTIMATES DO NOT INCLUDE WASHINGTON STATE DATA.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) WITH PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	ATLANTIC COD						ATLANTIC CROAKER					
	INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
1981.	303	33	1,380	34	2,998	21	5,500	14	3,526	14	374	36
1982.	222	90	942	49	2,320	17	6,199	13	8,088	16	227	18
1983.	90	28	849	17	2,401	16	9,764	10	6,719	13	2,861	24
1984.	55	53	453	16	1,088	10	10,998	9	8,107	12	1,092	17
1985.	252	61	631	31	2,932	44	8,380	9	6,421	11	1,962	63
1986.	61	48	333	16	1,073	17	22,515	10	6,950	11	602	23
1987.	30	31	932	36	2,134	18	11,598	9	3,971	15	818	16
1988.	84	24	275	17	2,449	17	11,459	9	4,648	23	1,470	25
1989.	533	22	255	17	1,548	10	7,419	6	2,431	8	382	16
1990.	75	18	356	12	1,880	15	12,168	6	2,467	20	194	30
1991.	130	28	208	18	1,917	12	22,787	6	2,834	12	312	25
1992.	21	38	103	15	726	11	13,547	5	2,901	14	505	20
1993.	80	22	263	14	2,350	11	17,594	5	2,702	7	721	19
1994.	297	25	318	15	1,247	9	21,197	4	4,945	6	528	15
1995.	63	29	154	19	1,725	15	14,126	5	2,853	7	774	25
1996.	29	36	89	15	962	11	12,590	6	3,435	8	841	13
BLACK DRUM												
YEAR	ATLANTIC MACKEREL						BLACK DRUM					
	INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
1981.	1,067	30	2,509	23	1,532	25	347	17	188	21	13	37
1982.	544	40	1,220	26	879	28	913	16	771	17	25	39
1983.	186	20	233	20	3,700	27	819	17	687	19	257	33
1984.	129	22	774	20	2,923	21	443	20	480	14	22	34
1985.	1,651	77	2,669	58	3,505	18	548	15	344	19	14	25
1986.	566	29	537	30	4,285	24	1,343	15	522	13	27	21
1987.	560	29	3,777	19	3,397	25	1,042	15	511	15	31	37
1988.	1,548	58	1,564	23	2,887	21	921	9	430	13	73	28
1989.	714	19	2,089	13	1,231	22	538	16	152	21	46	31
1990.	599	26	1,465	16	1,930	19	520	17	246	28	52	25
1991.	1,154	34	1,429	21	2,872	26	720	11	288	15	17	28
1992.	370	18	324	18	350	16	991	6	381	12	33	18
1993.	1,097	16	412	15	737	17	964	9	510	15	60	26
1994.	1,595	14	2,188	19	1,078	30	810	8	276	15	39	27
1995.	1,445	23	1,071	17	1,493	25	1,010	8	525	10	60	38
1996.	683	13	1,400	15	1,566	16	915	7	261	8	20	16

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR. "OCEAN TO 3 MILES" INCLUDES TRIPS OFF OF FLORIDA'S

WEST COAST FROM 0 TO 10 MILES FROM SHORE (STATE TERRITORIAL WATERS) WHILE "OCEAN 3 TO 200 MILES" INCLUDES

TRIPS OFF FLORIDA'S WEST COAST BEYOND 10 MILES FROM SHORE. ESTIMATES DO NOT INCLUDE TEXAS DATA.

U.S. MARINE RECREATIONAL FISHERIES

65

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) WITH PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	BLACK SEA BASS						BLUEFISH					
	INLAND			OCEAN 0 TO 3MILES			INLAND			OCEAN 0 TO 3MILES		
	EST	PSE (%)		EST	PSE (%)		EST	PSE (%)		EST	PSE (%)	
1981.	1,999	14	1,799	25	2,581	15	10,782	8	12,606	35	8,366	8
1982.	1,609	13	9,372	37	4,955	12	12,517	10	8,624	9	6,578	12
1983.	2,370	20	1,955	13	6,628	13	14,412	7	10,083	10	7,980	19
1984.	1,499	14	1,831	17	4,322	9	14,333	10	8,023	8	4,712	9
1985.	3,359	9	2,744	14	7,429	12	11,896	7	6,576	7	4,521	15
1986.	8,938	9	12,935	33	10,952	16	14,664	6	11,559	6	6,076	9
1987.	2,395	14	4,001	10	4,148	7	12,088	6	11,098	6	5,305	7
1988.	4,553	9	4,399	9	6,842	9	6,018	6	5,607	6	2,810	7
1989.	3,118	5	4,317	8	6,629	6	9,574	4	6,790	4	3,152	7
1990.	6,070	7	2,636	8	5,018	7	8,823	5	6,274	5	1,776	6
1991.	5,270	6	4,306	10	6,283	7	10,864	5	6,353	5	2,034	8
1992.	3,815	6	2,690	6	5,654	7	5,603	5	4,776	4	1,612	7
1993.	2,892	7	4,429	24	5,437	10	5,382	5	3,736	4	1,184	8
1994.	4,208	6	2,241	6	5,443	8	6,726	5	4,774	4	904	9
1995.	5,652	7	2,662	7	9,479	9	5,201	4	4,862	5	876	8
1996.	3,705	9	1,755	7	7,289	8	5,676	5	3,406	4	1,289	11
DOLPHIN												
1981.	2	100	27	37	1,098	16	4	71	106	42	132	23
1982.	5	45	755	17	511	24	5	52	164	22	219	18
1983.	0	0	204	22	900	15	23	92	502	33	255	16
1984.	2	100	350	31	755	26	5	54	192	46	141	17
1985.	2	74	477	26	659	21	11	43	71	29	277	17
1986.	2	100	617	18	920	10	28	32	79	37	137	15
1987.	2	72	333	15	1,219	10	21	29	154	22	225	16
1988.	22	96	515	18	1,152	10	33	39	80	21	221	15
1989.	2	100	574	16	2,348	7	227	22	143	17	186	12
1990.	2	56	561	24	1,363	9	114	26	118	17	426	22
1991.	9	25	395	13	2,798	7	273	18	505	19	426	18
1992.	29	32	233	15	1,221	6	197	20	337	13	561	9
1993.	40	33	265	14	1,620	6	583	15	466	12	988	7
1994.	24	28	220	35	2,206	5	583	10	744	9	905	7
1995.	1	100	315	9	2,297	4	386	10	566	10	1,588	6
1996.	12	29	179	12	1,714	6	364	10	399	9	827	6
GAG												
1981.	2	100	27	37	1,098	16	4	71	106	42	132	23
1982.	5	45	755	17	511	24	5	52	164	22	219	18
1983.	0	0	204	22	900	15	23	92	502	33	255	16
1984.	2	100	350	31	755	26	5	54	192	46	141	17
1985.	2	74	477	26	659	21	11	43	71	29	277	17
1986.	2	100	617	18	920	10	28	32	79	37	137	15
1987.	2	72	333	15	1,219	10	21	29	154	22	225	16
1988.	22	96	515	18	1,152	10	33	39	80	21	221	15
1989.	2	100	574	16	2,348	7	227	22	143	17	186	12
1990.	2	56	561	24	1,363	9	114	26	118	17	426	22
1991.	9	25	395	13	2,798	7	273	18	505	19	426	18
1992.	29	32	233	15	1,221	6	197	20	337	13	561	9
1993.	40	33	265	14	1,620	6	583	15	466	12	988	7
1994.	24	28	220	35	2,206	5	583	10	744	9	905	7
1995.	1	100	315	9	2,297	4	386	10	566	10	1,588	6
1996.	12	29	179	12	1,714	6	364	10	399	9	827	6

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR. "OCEAN TO 3 MILES" INCLUDES TRIPS OFF OF FLORIDA'S WEST COAST FROM 0 TO 10 MILES FROM SHORE (STATE TERRITORIAL WATERS) WHILE "OCEAN 3 TO 200 MILES" INCLUDES TRIPS OFF FLORIDA'S WEST COAST BEYOND 10 MILES FROM SHORE. ESTIMATES DO NOT INCLUDE TEXAS DATA.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) WITH PSE (%) BY MARINE RECREATIONAL ANGLERS,
BY SPECIES AND FISHING AREA, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	GRAY SNAPPER						GRAY TRIGGERFISH					
	INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	NUMBER IN THOUSANDS						NUMBER IN THOUSANDS					
1981.	205	21	559	16	879	40	2	53	244	30	128	27
1982.	324	20	1399	14	309	32	0	0	144	17	551	21
1983.	365	21	3425	36	306	21	20	46	99	21	84	17
1984.	306	25	3817	22	250	27	9	84	159	73	80	21
1985.	198	24	1917	17	206	21	3	79	160	28	145	22
1986.	436	21	1464	18	193	20	13	48	250	26	397	27
1987.	442	16	1203	46	384	20	21	45	298	34	503	31
1988.	849	10	996	11	138	20	30	32	448	16	437	14
1989.	1448	8	1402	12	302	22	49	32	451	16	779	17
1990.	1273	11	1020	13	276	26	27	25	774	12	837	17
1991.	2551	10	4505	9	349	18	59	23	442	9	575	14
1992.	3196	8	1799	7	368	11	41	30	424	12	552	9
1993.	2530	5	2194	7	430	11	39	20	324	10	543	8
1994.	2445	6	1943	6	458	15	44	22	256	10	534	9
1995.	1972	8	2170	6	410	12	27	21	262	13	541	8
1996.	1998	8	1731	7	685	10	43	20	225	13	394	11
	NUMBER IN THOUSANDS						NUMBER IN THOUSANDS					
YEAR	INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	NUMBER IN THOUSANDS						NUMBER IN THOUSANDS					
1981.	4	47	102	31	84	30	220	79	243	61	240	17
1982.	1	100	140	26	408	22	1	50	899	52	592	15
1983.	9	100	30	28	232	25	5	75	484	23	455	23
1984.	2	100	46	25	116	15	3	100	417	24	569	17
1985.	9	59	59	44	203	16	6	53	255	20	737	28
1986.	10	53	120	20	651	16	0	61	275	12	602	12
1987.	6	80	162	29	674	19	8	34	511	11	564	10
1988.	0	0	75	19	318	17	24	24	389	9	628	10
1989.	3	71	492	19	339	17	3	66	439	23	409	9
1990.	5	45	45	23	203	19	3	46	544	14	520	8
1991.	4	50	313	20	392	12	47	37	777	9	612	7
1992.	9	38	298	41	385	9	8	28	493	7	789	9
1993.	16	36	814	16	311	10	31	24	545	6	448	5
1994.	19	50	41	19	272	13	54	21	464	6	631	6
1995.	61	4	43	24	116	10	52	20	474	6	726	6
1996.	2	52	69	16	187	9	25	24	467	9	742	5

NOTE:---EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR. "OCEAN TO 3 MILES" INCLUDES TRIPS OFF OF FLORIDA'S WEST COAST FROM 0 TO 10 MILES FROM SHORE (STATE TERRITORIAL WATERS) WHILE "OCEAN 3 TO 200 MILES" INCLUDES TRIPS OFF FLORIDA'S WEST COAST BEYOND 10 MILES FROM SHORE. ESTIMATES DO NOT INCLUDE TEXAS DATA.

U.S. MARINE RECREATIONAL FISHERIES

67

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) WITH PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	RED DRUM						RED SNAPPER					
	INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
1981..	793	13	848	17	63	48	1	100	568	29	1,388	22
1982..	1,419	13	1,812	13	104	25	0	0	690	33	826	19
1983..	2,553	15	2,650	17	453	23	0	100	145	22	2,678	16
1984..	2,135	12	2,600	14	127	19	16	100	130	25	1,069	12
1985..	2,098	12	1,482	15	78	25	80	48	74	25	1,292	11
1986..	2,125	7	1,942	9	131	18	4	67	220	18	831	14
1987..	3,952	8	2,275	10	143	15	7	52	304	38	716	21
1988..	4,458	6	1,207	6	140	22	113	38	187	30	883	12
1989..	3,037	7	1,219	18	151	36	55	34	158	22	968	14
1990..	1,735	7	1,112	11	168	23	2	60	201	21	745	16
1991..	5,570	9	2,366	9	134	37	102	39	295	18	1,203	11
1992..	6,356	4	1,981	6	345	14	40	23	346	11	1,639	6
1993..	5,905	4	1,494	8	250	16	45	32	205	16	2,296	6
1994..	5,916	4	1,560	6	132	17	32	24	223	12	1,756	6
1995..	6,803	4	2,296	5	137	12	17	32	226	16	1,365	6
1996..	5,524	4	1,409	5	152	13	12	35	358	17	1,363	6
SCUP												
YEAR	INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	NUMBER IN THOUSANDS						NUMBER IN THOUSANDS					
1981..	1,355	30	7,740	53	120	26	7,218	28	2,238	23	933	22
1982..	370	23	4,462	28	344	19	3,208	12	2,576	18	1,401	23
1983..	312	30	4,782	22	683	30	4,772	15	2,178	16	3,205	26
1984..	561	62	6,752	25	368	21	5,629	20	1,419	19	727	26
1985..	1,171	21	4,803	22	817	32	12,416	12	1,051	18	402	28
1986..	2,777	13	4,046	10	295	18	17,138	10	10,243	12	3,493	28
1987..	933	20	2,700	11	375	15	3,760	10	5,664	14	2,952	22
1988..	1,825	11	939	12	189	20	5,067	9	2,003	14	471	28
1989..	2,388	23	977	13	56	47	8,194	7	2,594	12	608	16
1990..	1,593	13	2,259	14	732	30	6,023	7	3,327	9	823	16
1991..	3,380	15	1,539	12	216	34	12,365	6	3,583	10	907	13
1992..	2,575	15	1,032	11	173	22	7,485	7	2,368	10	225	17
1993..	2,033	9	1,586	12	449	22	4,867	6	1,188	13	1,022	23
1994..	3,505	7	1,705	10	455	17	3,619	11	1,077	12	965	16
1995..	2,582	9	1,498	11	275	20	1,573	9	1,201	13	913	23
1996..	2,152	7	1,847	10	625	23	3,576	9	946	13	335	21

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR. "OCEAN TO 3 MILES" INCLUDES TRIPS OFF OF FLORIDA'S

WEST COAST FROM 0 TO 10 MILES FROM SHORE (STATE TERRITORIAL WATERS) WHILE "OCEAN 3 TO 200 MILES" INCLUDES

TRIPS OFF FLORIDA'S WEST COAST BEYOND 10 MILES FROM SHORE. ESTIMATES DO NOT INCLUDE TEXAS DATA.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) WITH PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	SHEEPSHEAD						SOUTHERN FLOUNDER					
	INLAND			OCEAN 0 TO 3MILES			INLAND			OCEAN 0 TO 3MILES		
	EST	PSE (%)		EST	PSE (%)	NUMBER IN THOUSANDS	EST	PSE (%)		EST	PSE (%)	OCEAN 3 TO 200 MILES
	-----						-----					
1981.	682	18	456	18	13	44	596	23	263	29	3	55
1982.	1,675	11	1,270	12	142	31	1,016	34	1,355	22	26	39
1983.	1,916	22	1,585	18	178	26	590	14	2,048	34	95	68
1984.	1,368	17	2,317	12	117	33	499	13	537	18	35	35
1985.	1,015	13	2,279	15	72	33	725	14	532	18	15	32
1986.	2,147	22	823	11	48	27	2,133	20	776	19	88	35
1987.	1,784	11	1,026	10	60	19	392	9	601	40	21	36
1988.	2,470	8	1,674	11	152	19	1,051	13	272	16	14	25
1989.	2,248	10	1,488	14	111	35	871	21	145	18	19	35
1990.	1,900	9	916	19	117	20	1,166	16	382	25	26	23
1991.	2,857	8	631	12	22	34	739	8	514	12	21	26
1992.	4,808	5	995	9	131	22	884	6	250	10	13	20
1993.	4,450	5	980	12	163	23	822	6	243	12	17	25
1994.	3,369	5	891	8	123	18	1,085	5	259	9	25	22
1995.	3,984	6	973	8	161	18	1,128	5	299	9	19	36
1996.	2,693	5	698	7	151	15	1,965	6	207	12	19	54
YEAR	SPANISH MACKEREL						SPOT					
	INLAND			OCEAN 0 TO 3MILES			INLAND			OCEAN 0 TO 3MILES		
	EST	PSE (%)		EST	PSE (%)	NUMBER IN THOUSANDS	EST	PSE (%)		EST	PSE (%)	OCEAN 3 TO 200 MILES
	-----						-----					
1981.	494	29	1,531	15	428	18	6,999	13	20,275	19	2,276	22
1982.	174	46	2,908	20	914	23	8,230	12	11,497	10	140	31
1983.	370	51	1,777	39	1,295	23	12,795	22	10,038	14	2,644	23
1984.	71	63	702	18	1,022	30	6,116	11	4,815	13	970	23
1985.	166	28	1,022	14	463	14	10,779	9	11,565	11	260	27
1986.	204	26	1,177	12	1,124	12	13,707	7	5,456	15	178	22
1987.	91	16	2,374	7	816	10	9,731	7	2,915	8	375	18
1988.	478	16	2,397	7	1,046	9	6,755	9	3,991	14	69	32
1989.	456	14	1,926	7	549	8	9,269	5	3,561	7	227	15
1990.	1,580	16	2,697	8	778	8	14,399	6	2,719	12	254	21
1991.	941	11	3,199	8	647	9	20,801	6	3,926	6	317	49
1992.	1,686	9	3,294	4	595	6	11,994	7	2,880	12	100	23
1993.	1,040	8	2,208	6	404	9	10,186	7	4,058	9	19	43
1994.	1,122	9	2,251	4	477	12	8,816	4	8,556	7	119	21
1995.	396	9	1,659	6	513	23	4,695	6	6,759	7	113	23
1996.	1,121	10	1,330	6	537	8	3,139	8	4,428	11	97	30

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR. "OCEAN TO 3 MILES" INCLUDES TRIPS OFF OF FLORIDA'S WEST COAST FROM 0 TO 10 MILES FROM SHORE (STATE TERRITORIAL WATERS) WHILE "OCEAN 3 TO 200 MILES" INCLUDES TRIPS OFF FLORIDA'S WEST COAST BEYOND 10 MILES FROM SHORE. ESTIMATES DO NOT INCLUDE TEXAS DATA.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) WITH PSE (%) BY MARINE RECREATIONAL ANGLERS,
BY SPECIES AND FISHING AREA, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	SPOTTED SEATROUT						STRIPED BASS					
	INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
NUMBER IN THOUSANDS												
1981..	2,838	14	2,861	18	416	22	755	42	102	32	13	55
1982..	5,563	12	8,345	12	747	17	902	45	78	48	68	32
1983..	5,464	15	6,957	12	2,303	31	332	16	330	44	33	52
1984..	3,283	22	8,537	12	782	36	225	21	327	27	1	100
1985..	4,428	11	6,642	13	274	21	436	20	154	21	0	0
1986..	13,796	25	11,391	6	1,481	11	482	28	645	28	15	41
1987..	9,274	6	10,670	5	1,824	10	295	20	390	19	75	62
1988..	12,030	4	8,108	6	1,888	11	440	22	651	42	42	23
1989..	12,087	6	7,363	7	1,141	17	996	23	235	14	26	22
1990..	8,312	5	4,646	7	441	16	1,416	10	503	11	55	30
1991..	18,955	5	10,202	6	774	13	2,350	10	967	20	115	24
1992..	15,816	4	5,576	5	912	15	2,411	9	1,314	11	116	18
1993..	15,791	4	5,402	5	343	17	3,475	7	1,105	8	220	15
1994..	15,284	3	6,486	4	412	14	6,557	8	1,580	8	384	15
1995..	15,566	3	8,735	4	314	17	7,141	7	2,859	8	688	11
1996..	13,885	3	6,388	4	289	16	9,323	7	3,955	6	822	9
TAUTOG												
YEAR	INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
NUMBER IN THOUSANDS												
1981..	8,039	8	4,968	16	596	15	884	18	893	29	273	19
1982..	8,362	7	14,098	44	1,132	30	1,183	14	1,212	18	884	17
1983..	18,860	7	11,044	17	2,207	13	1,346	14	1,356	16	673	22
1984..	15,377	9	13,526	10	997	19	1,066	12	1,573	12	25	20
1985..	4,864	9	6,554	19	2,108	26	1,740	15	736	22	748	36
1986..	14,433	7	10,048	8	835	13	2,723	8	3,146	17	2,257	34
1987..	10,563	6	9,626	6	892	13	2,170	15	1,276	13	1,286	15
1988..	9,657	4	5,927	6	1,639	8	2,526	11	1,092	13	653	22
1989..	1,357	6	1,239	9	98	13	2,221	7	811	13	562	14
1990..	5,114	4	3,575	6	425	12	2,182	7	836	9	718	11
1991..	9,311	5	6,468	5	432	11	2,891	6	1,566	9	731	11
1992..	7,913	4	7,749	6	256	11	2,397	7	918	10	880	14
1993..	14,724	4	7,648	7	547	14	2,904	7	771	17	540	11
1994..	11,963	4	5,326	6	452	15	1,682	9	366	17	605	13
1995..	12,401	5	3,172	7	665	14	1,992	9	1,155	14	668	15
1996..	12,936	4	5,969	5	896	10	1,054	8	543	18	683	10
SUMMER FLOUNDER												
YEAR	INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
NUMBER IN THOUSANDS												
1981..	8,039	8	4,968	16	596	15	884	18	893	29	273	19
1982..	8,362	7	14,098	44	1,132	30	1,183	14	1,212	18	884	17
1983..	18,860	7	11,044	17	2,207	13	1,346	14	1,356	16	673	22
1984..	15,377	9	13,526	10	997	19	1,066	12	1,573	12	25	20
1985..	4,864	9	6,554	19	2,108	26	1,740	15	736	22	748	36
1986..	14,433	7	10,048	8	835	13	2,723	8	3,146	17	2,257	34
1987..	10,563	6	9,626	6	892	13	2,170	15	1,276	13	1,286	15
1988..	9,657	4	5,927	6	1,639	8	2,526	11	1,092	13	653	22
1989..	1,357	6	1,239	9	98	13	2,221	7	811	13	562	14
1990..	5,114	4	3,575	6	425	12	2,182	7	836	9	718	11
1991..	9,311	5	6,468	5	432	11	2,891	6	1,566	9	731	11
1992..	7,913	4	7,749	6	256	11	2,397	7	918	10	880	14
1993..	14,724	4	7,648	7	547	14	2,904	7	771	17	540	11
1994..	11,963	4	5,326	6	452	15	1,682	9	366	17	605	13
1995..	12,401	5	3,172	7	665	14	1,992	9	1,155	14	668	15
1996..	12,936	4	5,969	5	896	10	1,054	8	543	18	683	10

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR. *OCEAN TO 3 MILES* INCLUDES TRIPS OFF OF FLORIDA'S WEST COAST FROM 0 TO 10 MILES FROM SHORE (STATE TERRITORIAL WATERS) WHILE *OCEAN 3 TO 200 MILES* INCLUDES TRIPS OFF FLORIDA'S WEST COAST BEYOND 10 MILES FROM SHORE. ESTIMATES DO NOT INCLUDE TEXAS DATA.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) WITH PSE (%) BY MARINE RECREATIONAL ANGLERS,
BY SPECIES AND FISHING AREA, 1981-1996 FOR THE ATLANTIC AND GULF COASTS

YEAR	VERMILION SNAPPER						WEAKFISH					
	INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	NUMBER IN THOUSANDS											
1981.	0	0	92	24	59	27	1,570	12	6,937	47	1,122	26
1982.	0	0	124	27	745	19	671	20	1,140	22	234	31
1983.	0	0	65	21	391	32	3,584	13	1,566	34	766	25
1984.	0	0	66	25	394	16	1,165	26	1,812	19	792	21
1985.	3	78	305	44	720	23	924	14	1,061	18	790	14
1986.	25	35	140	25	549	26	5,351	9	3,645	14	1,978	20
1987.	1	100	129	37	701	33	3,537	14	1,111	16	1,072	14
1988.	89	89	255	23	827	14	3,851	15	1,382	29	1,213	20
1989.	0	0	204	28	658	15	1,163	9	435	16	77	25
1990.	10	57	146	25	627	20	1,026	8	413	12	233	17
1991.	0	0	522	22	711	15	1,855	7	368	15	379	33
1992.	28	81	213	19	709	8	1,394	8	149	14	125	30
1993.	10	50	159	17	1,059	8	1,738	7	346	15	135	27
1994.	2	100	142	23	683	8	3,687	6	744	10	498	17
1995.	8	53	351	15	841	9	4,553	6	898	12	288	19
1996.	0	100	93	19	374	9	6,217	6	974	10	402	14
	ALL FISHES											
YEAR	INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
	NUMBER IN THOUSANDS											
1981.	14,786	9	2,316	16	358	23	97,473	4	133,452	7	38,749	4
1982.	11,456	9	6,859	37	271	26	104,216	3	165,075	6	36,090	4
1983.	10,467	9	2,523	14	173	18	139,072	3	163,839	4	66,469	5
1984.	7,084	9	2,691	14	111	30	115,355	3	165,984	3	37,986	4
1985.	18,431	14	3,090	20	45	66	119,924	3	132,949	5	47,429	6
1986.	8,700	11	1,362	10	222	32	181,632	3	172,025	3	53,662	5
1987.	7,772	10	3,808	14	689	31	113,731	2	124,334	3	48,013	3
1988.	9,673	9	1,058	12	388	19	141,473	2	100,617	3	48,564	3
1989.	6,822	23	1,191	12	55	26	126,239	2	82,726	4	40,148	3
1990.	3,486	8	1,068	9	78	21	140,921	2	75,288	3	34,194	3
1991.	3,915	10	589	8	58	26	213,416	2	127,207	2	44,358	3
1992.	1,280	9	232	11	32	25	170,260	2	87,933	2	33,692	2
1993.	3,120	21	382	14	81	20	187,752	2	91,952	2	37,080	2
1994.	2,038	12	233	13	29	32	204,137	2	100,690	1	37,028	2
1995.	2,106	9	152	15	66	52	163,466	2	100,462	3	47,598	4
1996.	2,739	13	155	17	19	25	161,205	2	80,685	2	37,838	2

NOTE:---EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR. "OCEAN TO 3 MILES" INCLUDES TRIPS OFF OF FLORIDA'S WEST COAST FROM 0 TO 10 MILES FROM SHORE (STATE TERRITORIAL WATERS) WHILE "OCEAN 3 TO 200 MILES" INCLUDES TRIPS OFF FLORIDA'S WEST COAST BEYOND 10 MILES FROM SHORE. ESTIMATES DO NOT INCLUDE TEXAS DATA.

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1981-1996 FOR THE ATLANTIC AND GULF COASTS.

YEAR	ATLANTIC COD										ATLANTIC CROAKER									
	INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
1981.	1,019	36	4,719	35	11,986	24	1,636	18	1,270	17	1,76	34	1,636	18	1,270	17	1,76	34	1,636	18
1982.	701	97	3,320	48	17,514	24	1,414	15	3,194	22	192	30	1,414	15	3,194	22	192	30	1,414	15
1983.	159	35	2,177	22	12,247	24	1,756	15	1,353	16	183	27	1,756	15	1,353	16	183	27	1,756	15
1984.	162	50	1,573	24	4,204	13	3,211	17	1,322	13	290	23	3,211	17	1,322	13	290	23	3,211	17
1985.	639	60	1,738	46	20,701	63	1,887	11	1,174	14	103	21	1,887	11	1,174	14	103	21	1,887	11
1986.	194	56	1,313	31	6,020	40	6,386	15	1,515	17	164	29	6,386	15	1,515	17	164	29	6,386	15
1987.	54	39	2,576	41	6,358	20	2,613	11	1,192	20	323	26	2,613	11	1,192	20	323	26	2,613	11
1988.	330	30	1,394	26	10,381	17	3,579	9	1,749	37	960	34	3,579	9	1,749	37	960	34	3,579	9
1989.	1,269	24	600	35	5,241	12	2,113	8	602	12	111	18	2,113	8	602	12	111	18	2,113	8
1990.	280	32	1,182	17	6,449	12	1,962	8	515	41	110	31	1,962	8	515	41	110	31	1,962	8
1991.	516	37	728	25	8,063	19	3,862	21	560	56	15	29	3,862	21	560	56	15	29	3,862	21
1992.	25	37	360	30	1,951	18	2,681	7	431	19	85	29	2,681	7	431	19	85	29	2,681	7
1993.	106	39	467	21	6,566	15	3,177	7	328	11	105	32	3,177	7	328	11	105	32	3,177	7
1994.	304	30	553	22	3,428	30	4,595	6	756	15	121	27	4,595	6	756	15	121	27	4,595	6
1995.	87	47	196	24	4,318	17	3,800	7	339	12	288	41	3,800	7	339	12	288	41	3,800	7
1996.	105	80	220	25	3,007	22	3,629	8	525	11	507	18	3,629	8	525	11	507	18	3,629	8

YEAR	ATLANTIC MACKEREL										BLACK DRUM									
	INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
1981.	620	44	4,082	22	2,375	27	677	23	449	24	156	20	677	23	449	24	156	20	677	23
1982.	742	33	67	28	1,816	28	1,159	25	1,687	22	30	42	1,159	25	1,687	22	30	42	1,159	25
1983.	165	23	132	37	6,321	29	2,081	15	1,799	25	916	40	2,081	15	1,799	25	916	40	2,081	15
1984.	109	25	895	19	4,109	23	754	22	1,186	24	70	51	754	22	1,186	24	70	51	754	22
1985.	1,044	76	1,932	51	3,006	47	866	18	1,377	25	180	48	866	18	1,377	25	180	48	866	18
1986.	612	45	625	43	8,073	29	3,079	17	888	24	41	32	3,079	17	888	24	41	32	3,079	17
1987.	395	39	3,712	23	4,782	27	3,238	40	874	22	539	53	3,238	40	874	22	539	53	3,238	40
1988.	1,313	63	2,163	26	3,722	24	1,666	14	815	19	206	27	1,666	14	815	19	206	27	1,666	14
1989.	387	23	2,141	15	1,410	24	1,687	14	578	36	108	31	1,687	14	578	36	108	31	1,687	14
1990.	650	35	1,431	18	2,035	20	422	18	529	33	72	38	422	18	529	33	72	38	422	18
1991.	979	31	1,533	23	3,145	19	1,180	18	636	31	35	32	1,180	18	636	31	35	32	1,180	18
1992.	172	20	215	23	243	22	1,541	10	749	14	62	21	1,541	10	749	14	62	21	1,541	10
1993.	375	18	271	19	681	20	1,258	11	516	26	133	36	1,258	11	516	26	133	36	1,258	11
1994.	646	19	2,114	22	939	35	1,084	11	663	33	126	32	1,084	11	663	33	126	32	1,084	11
1995.	474	17	1,014	20	1,266	27	1,407	11	575	14	139	31	1,407	11	575	14	139	31	1,407	11
1996.	564	17	1,393	18	1,166	18	1,395	9	386	12	44	22	1,395	9	386	12	44	22	1,395	9

NOTE: EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR. "OCEAN TO 3 MILES" INCLUDES TRIPS OFF OF FLORIDA'S WEST COAST FROM 0 TO 10 MILES FROM SHORE (STATE TERRITORIAL WATERS) WHILE "OCEAN 3 TO 200 MILES" INCLUDES TRIPS OFF FLORIDA'S WEST COAST BEYOND 10 MILES FROM SHORE. ESTIMATES DO NOT INCLUDE TEXAS DATA.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1981-1996 FOR THE ATLANTIC AND GULF COASTS.

YEAR	BLACK SEA BASS										BLUEFISH																			
	INLAND					OCEAN 0 TO 3MILES					OCEAN 3 TO 200 MILES					INLAND					OCEAN 0 TO 3MILES					OCEAN 3 TO 200 MILES				
	EST	PSE (%)	EST	PSE (%)	THOUSANDS OF POUNDS	EST	PSE (%)	EST	PSE (%)	THOUSANDS OF POUNDS	EST	PSE (%)	EST	PSE (%)	THOUSANDS OF POUNDS	EST	PSE (%)	EST	PSE (%)	THOUSANDS OF POUNDS	EST	PSE (%)	EST	PSE (%)	THOUSANDS OF POUNDS					
1981.	552	21	448	21	1,228	21	1,228	19,875	14	27,832	20	27,832	48,160	10	19,875	14	27,832	48,160	10	19,875	14	27,832	48,160	10	19,875					
1982.	512	22	8,465	40	3,186	20	3,186	14,104	24	21,692	20	21,692	47,628	16	14,104	24	21,692	47,628	16	14,104	24	21,692	47,628	16	14,104					
1983.	339	26	434	19	4,315	18	4,315	23,565	10	24,680	21	24,680	44,466	21	23,565	10	24,680	44,466	21	23,565	10	24,680	44,466	21	23,565					
1984.	269	16	755	23	2,738	14	2,738	17,918	20	18,983	11	18,983	31,431	11	17,918	20	18,983	31,431	11	17,918	20	18,983	31,431	11	17,918					
1985.	508	11	845	21	3,893	18	3,893	21,375	9	11,520	16	11,520	20,285	23	21,375	9	11,520	20,285	23	21,375	9	11,520	20,285	23	21,375					
1986.	1,963	16	5,538	37	6,536	23	6,536	25,631	12	31,360	8	31,360	36,752	13	1,963	16	5,538	36,752	13	1,963	16	5,538	36,752	13	1,963					
1987.	501	21	1,465	17	1,807	10	1,807	16,791	7	26,211	9	26,211	25,985	8	5,008	7	26,211	25,985	8	5,008	7	26,211	25,985	8	5,008					
1988.	580	14	880	14	4,228	15	4,228	16,791	9	17,063	9	17,063	15,539	9	13,670	9	17,063	15,539	9	13,670	9	17,063	15,539	9	13,670					
1989.	819	8	1,751	12	3,630	9	3,630	13,670	7	8,780	7	8,780	7,090	8	13,670	7	8,780	7,090	8	13,670	7	8,780	7,090	8	13,670					
1990.	469	10	726	16	2,710	9	2,710	16,889	7	9,593	7	9,593	7,484	8	16,889	7	9,593	7,484	8	16,889	7	9,593	7,484	8	16,889					
1991.	751	10	955	11	3,769	12	3,769	10,273	6	8,699	6	8,699	5,809	9	7,51	10	955	5,809	9	7,51	10	955	5,809	9	7,51					
1992.	404	9	1,007	12	2,332	8	2,332	9,979	6	5,816	6	5,816	4,846	10	1,007	12	2,332	4,846	10	1,007	12	2,332	4,846	10	1,007					
1993.	562	18	2,188	41	3,143	18	3,143	8,128	7	5,172	7	5,172	2,692	14	562	18	2,188	2,692	14	562	18	2,188	2,692	14	562					
1994.	377	12	453	13	3,251	12	3,251	7,268	8	3,989	10	3,989	3,517	11	377	12	453	3,517	11	377	12	453	3,517	11	377					
1995.	608	15	476	20	5,956	14	5,956	5,365	11	3,919	9	3,919	5,804	17	608	15	476	5,804	17	608	15	476	5,804	17	608					
1996.	481	16	560	18	5,759	15	5,759							17	481	16	560							17	481					

YEAR	DOLPHIN										GAG																			
	INLAND					OCEAN 0 TO 3MILES					OCEAN 3 TO 200 MILES					INLAND					OCEAN 0 TO 3MILES					OCEAN 3 TO 200 MILES				
	EST	PSE (%)	EST	PSE (%)	THOUSANDS OF POUNDS	EST	PSE (%)	EST	PSE (%)	THOUSANDS OF POUNDS	EST	PSE (%)	EST	PSE (%)	THOUSANDS OF POUNDS	EST	PSE (%)	EST	PSE (%)	THOUSANDS OF POUNDS	EST	PSE (%)	EST	PSE (%)	THOUSANDS OF POUNDS					
1981.	0	0	54	32	5,415	21	5,415	11	85	74	40	74	334	24	0	0	276	1,035	24	0	0	276	1,035	24	0					
1982.	49	46	3,399	34	3,590	19	3,590	1	0	214	38	214	1,360	19	49	46	3,399	1,360	19	49	46	3,399	1,360	19	49					
1983.	0	0	774	22	6,094	17	6,094	19	94	2,255	73	2,255	794	20	0	0	2,255	794	20	0	0	2,255	794	20	0					
1984.	4	100	1,484	22	2,917	21	2,917	4	52	176	38	176	1,648	23	4	52	176	1,648	23	4	52	176	1,648	23	4					
1985.	1	0	1,647	25	5,248	17	5,248	7	36	418	25	418	999	19	1	0	54	999	19	1	0	54	999	19	1					
1986.	12	100	2,326	24	7,615	12	7,615	65	58	280	27	280	1,293	19	12	100	2,326	1,293	19	12	100	2,326	1,293	19	12					
1987.	13	62	1,731	31	5,419	12	5,419	158	54	379	24	379	853	17	13	62	1,731	853	17	13	62	1,731	853	17	13					
1988.	82	94	1,724	25	8,800	12	8,800	23	48	341	30	341	1,417	30	82	94	1,724	1,417	30	82	94	1,724	1,417	30	82					
1989.	3	100	2,288	35	11,208	8	11,208	507	48	1,064	19	1,064	1,762	20	3	100	2,288	1,762	20	3	100	2,288	1,762	20	3					
1990.	18	87	4,121	15	14,202	8	14,202	111	32	546	16	546	1,549	10	18	87	4,121	1,549	10	18	87	4,121	1,549	10	18					
1991.	84	34	2,923	37	7,964	10	7,964	111	37	529	15	529	2,207	9	84	34	2,923	2,207	9	84	34	2,923	2,207	9	84					
1992.	106	38	1,721	17	9,615	9	9,615	158	30	418	17	418	1,931	10	106	38	1,721	1,931	10	106	38	1,721	1,931	10	106					
1993.	65	38	1,138	17	11,367	6	11,367	222	20	516	20	516	2,193	9	65	38	1,138	2,193	9	65	38	1,138	2,193	9	65					
1994.	76	49	1,335	40	17,123	5	17,123	126	24	447	16	447	1,669	9	76	49	1,335	1,669	9	76	49	1,335	1,669	9	76					
1995.	10	100	2,659	11	11,096	7	11,096							10	10	100	2,659							10	10					
1996.	63	31	1,389	18										9	63	31	1,389							9	63					

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR. "OCEAN TO 3 MILES" INCLUDES TRIPS OFF OF FLORIDA'S WEST COAST FROM 0 TO 10 MILES FROM SHORE (STATE TERRITORIAL WATERS) WHILE "OCEAN 3 TO 200 MILES" INCLUDES TRIPS OFF FLORIDA'S WEST COAST BEYOND 10 MILES FROM SHORE. ESTIMATES DO NOT INCLUDE TEXAS DATA.

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1981-1996 FOR THE ATLANTIC AND GULF COASTS.

YEAR	GRAY SNAPPER						GRAY TRIGGERFISH					
	INLAND			OCEAN 0 TO 3MILES			INLAND			OCEAN 0 TO 3MILES		
	EST	PSE (%)		EST	PSE (%)		EST	PSE (%)		EST	PSE (%)	
1981.	139	40	456	24	677	50	4	64	509	49	216	30
1982.	99	21	577	19	308	31	0	0	223	28	927	26
1983.	165	27	765	25	297	26	20	50	159	28	135	19
1984.	211	38	3,272	33	359	40	11	91	53	25	132	18
1985.	95	35	1,672	24	505	37	1	100	129	30	152	30
1986.	233	35	800	20	287	26	15	20	484	38	912	30
1987.	143	29	852	48	447	32	19	62	512	47	1,241	40
1988.	379	13	554	20	155	31	66	44	787	22	592	19
1989.	444	11	749	15	336	30	58	46	653	19	1,088	18
1990.	642	24	454	21	293	41	29	35	722	23	1,604	22
1991.	614	16	1,112	15	330	26	103	38	1,072	20	1,250	18
1992.	590	9	578	10	291	15	37	42	563	14	1,031	10
1993.	386	8	647	11	336	18	49	21	514	17	902	11
1994.	412	9	583	11	422	19	43	30	362	21	944	11
1995.	388	10	499	10	491	14	26	28	334	17	820	9
1996.	325	11	437	11	425	14	42	23	188	17	606	14
THOUSANDS OF POUNDS												
YEAR	GREATER AMBERJACK						KING MACKEREL					
	INLAND			OCEAN 0 TO 3MILES			INLAND			OCEAN 0 TO 3MILES		
	EST	PSE (%)		EST	PSE (%)		EST	PSE (%)		EST	PSE (%)	
1981.	2	51	841	37	1,069	11	1,506	79	1,980	14	2,539	21
1982.	47	100	710	39	3,117	21	10	55	7,629	54	4,923	13
1983.	0	0	257	33	1,965	18	57	83	5,296	25	4,162	25
1984.	74	100	540	27	2,115	20	23	100	3,669	22	6,053	17
1985.	293	76	378	41	1,999	17	39	77	2,492	22	6,141	28
1986.	34	74	1,204	26	8,536	18	4	79	2,902	15	5,132	11
1987.	2	70	1,048	31	7,073	21	84	25	3,711	11	4,529	12
1988.	0	0	501	24	3,856	18	188	57	3,255	11	5,423	11
1989.	59	83	1,787	28	4,549	22	24	68	3,134	16	3,456	9
1990.	48	98	262	27	1,717	21	53	49	3,386	13	3,884	9
1991.	1	44	1,729	28	2,222	15	90	38	4,775	12	4,698	8
1992.	9	120	650	19	3,127	11	44	36	3,711	8	4,455	9
1993.	0	62	1,099	15	3,211	19	121	30	4,171	8	4,253	6
1994.	273	64	379	44	2,537	12	353	23	3,523	10	4,944	6
1995.	73	100	332	32	1,029	13	287	21	3,715	8	5,717	6
1996.	0	0	446	21	1,524	10	187	29	3,396	8	6,436	6
THOUSANDS OF POUNDS												

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR. "OCEAN TO 3 MILES" INCLUDES TRIPS OFF OF FLORIDA'S WEST COAST FROM 0 TO 10 MILES FROM SHORE (STATE TERRITORIAL WATERS) WHILE "OCEAN 3 TO 200 MILES" INCLUDES TRIPS OFF FLORIDA'S WEST COAST BEYOND 10 MILES FROM SHORE. ESTIMATES DO NOT INCLUDE TEXAS DATA.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1981-1996 FOR THE ATLANTIC AND GULF COASTS.

YEAR	RED DRUM						RED SNAPPER					
	INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
1981.	1,702	16	1,800	20	387	55	1	100	807	31	3,573	29
1982.	2,866	17	4,163	25	297	44	0	0	1,015	26	1,341	24
1983.	3,745	17	3,008	19	1,255	23	0	0	188	25	4,139	20
1984.	3,258	14	5,517	25	720	20	0	0	167	24	1,713	20
1985.	3,821	14	3,506	25	311	28	39	77	190	35	3,564	19
1986.	3,718	15	3,065	13	371	20	3	60	641	31	1,895	20
1987.	3,602	12	1,571	11	1,033	27	17	54	370	36	1,394	31
1988.	3,646	9	1,002	16	194	33	46	40	255	24	1,823	22
1989.	4,460	9	1,969	15	226	22	34	49	202	47	1,847	21
1990.	2,911	14	1,964	16	535	23	4	101	281	31	1,890	16
1991.	4,445	10	2,141	13	60	37	35	79	343	30	1,267	14
1992.	6,190	5	2,434	6	348	15	32	49	531	26	2,668	11
1993.	6,987	6	2,210	9	727	15	60	71	344	15	3,873	7
1994.	6,589	5	1,919	8	463	23	38	31	396	17	3,500	9
1995.	10,109	5	2,860	6	697	21	5	83	329	17	2,609	9
1996.	9,099	5	3,063	8	880	19	3	100	254	23	2,462	9
YEAR	SAND SEATROUT						SCUP					
	INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3MILES		OCEAN 3 TO 200 MILES	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
1981.	846	29	3,130	53	97	32	3,970	36	1,220	26	624	32
1982.	193	26	785	26	271	28	1,737	17	1,883	21	1,595	25
1983.	87	44	2,138	25	261	31	2,158	18	1,475	22	2,619	28
1984.	162	61	2,630	31	240	26	1,540	23	600	25	276	31
1985.	642	30	3,861	25	592	34	5,699	14	271	22	126	21
1986.	985	15	1,853	12	208	21	4,879	13	5,208	15	1,522	33
1987.	431	20	1,323	14	260	17	1,456	14	2,967	23	1,774	26
1988.	978	15	489	16	94	25	2,442	13	1,369	18	456	36
1989.	938	27	504	17	13	30	3,547	9	1,744	11	266	26
1990.	497	15	866	18	472	33	5,776	7	1,834	12	297	21
1991.	1,715	18	853	15	141	36	2,472	11	1,176	17	87	19
1992.	1,017	15	490	12	136	27	3,942	8	1,498	17	758	34
1993.	781	10	819	16	490	29	1,149	7	564	15	343	22
1994.	1,663	8	877	12	344	19	1,721	17	468	16	382	24
1995.	1,077	10	769	14	155	22	1,464	22	508	17	203	31
1996.	832	12	768	12	289	23	1,528	10				

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR. "OCEAN TO 3 MILES" INCLUDES TRIPS OFF OF FLORIDA'S WEST COAST FROM 0 TO 10 MILES FROM SHORE (STATE TERRITORIAL WATERS) WHILE "OCEAN 3 TO 200 MILES" INCLUDES TRIPS OFF FLORIDA'S WEST COAST BEYOND 10 MILES FROM SHORE. ESTIMATES DO NOT INCLUDE TEXAS DATA.

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1981-1996 FOR THE ATLANTIC AND GULF COASTS.

YEAR	SHEEPSHEAD										SOUTHERN FLOUNDER							
	INLAND			OCEAN 0 TO 3MILES			OCEAN 3 TO 200 MILES			INLAND			OCEAN 0 TO 3MILES			OCEAN 3 TO 200 MILES		
	EST	PSE (%)		EST	PSE (%)		EST	PSE (%)		EST	PSE (%)		EST	PSE (%)		EST	PSE (%)	
1981.	995	24	494	25	39	736	32	25	243	18	3	66						
1982.	1,882	15	1,601	15	354	973	41	51	758	18	29	45						
1983.	1,484	18	2,203	28	339	520	27	16	2,834	42	94	65						
1984.	1,769	14	2,536	16	364	422	39	13	346	15	14	39						
1985.	1,303	19	2,418	27	106	775	46	17	601	24	25	44						
1986.	2,706	26	938	18	36	2,436	24	22	701	24	22	27						
1987.	2,361	14	1,287	12	82	419	20	10	252	14	35	41						
1988.	3,098	10	2,611	14	244	1,062	27	16	269	15	16	35						
1989.	3,414	12	2,366	19	94	847	64	10	170	31	21	43						
1990.	2,410	12	1,154	21	157	927	28	9	397	28	34	38						
1991.	3,595	11	1,468	19	27	949	53	9	600	13	31	28						
1992.	5,450	6	1,571	10	341	1,209	7	7	409	14	19	28						
1993.	5,025	7	1,078	12	353	1,010	36	7	305	12	34	30						
1994.	4,198	8	1,262	12	176	1,435	25	6	320	11	42	30						
1995.	5,362	7	1,690	12	455	1,264	27	7	350	14	24	41						
1996.	3,554	6	1,164	9	337	1,021	23	7	189	14	48	56						
SPOT																		
YEAR	SPANISH MACKEREL										SPOT							
	INLAND			OCEAN 0 TO 3MILES			OCEAN 3 TO 200 MILES			INLAND			OCEAN 0 TO 3MILES			OCEAN 3 TO 200 MILES		
	EST	PSE (%)		EST	PSE (%)		EST	PSE (%)		EST	PSE (%)		EST	PSE (%)		EST	PSE (%)	
1981.	567	29	1,631	16	825	2,015	23	19	4,331	17	611	28						
1982.	203	59	2,635	18	1,166	1,218	35	15	2,758	14	26	34						
1983.	155	49	1,175	22	1,543	2,146	22	27	2,406	18	47	27						
1984.	155	68	845	25	1,458	745	29	14	822	15	239	47						
1985.	192	32	1,039	16	664	2,589	16	13	3,285	13	78	32						
1986.	260	30	6,466	16	1,271	2,507	14	9	880	18	39	27						
1987.	124	17	3,077	8	1,429	3,509	14	10	748	11	101	20						
1988.	414	19	3,308	8	1,428	1,509	8	7	1,023	20	21	34						
1989.	347	15	1,857	7	862	2,318	10	8	920	9	56	20						
1990.	599	15	2,456	8	1,037	3,024	9	8	555	19	60	33						
1991.	933	14	2,964	7	1,096	3,721	10	10	801	9	18	65						
1992.	1,110	11	3,336	5	926	3,518	8	10	540	15	9	43						
1993.	826	10	1,881	7	671	2,244	10	9	1,234	10	1	55						
1994.	719	8	1,911	6	505	2,211	9	6	2,144	9	28	29						
1995.	348	12	1,392	8	708	1,380	14	8	1,755	9	22	34						
1996.	799	10	1,244	8	661	968	11	11	1,068	14	15	45						

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR. *OCEAN TO 3 MILES" INCLUDES TRIPS OFF OF FLORIDA'S WEST COAST FROM 0 TO 10 MILES FROM SHORE (STATE TERRITORIAL WATERS) WHILE "OCEAN 3 TO 200 MILES" INCLUDES TRIPS OFF FLORIDA'S WEST COAST BEYOND 10 MILES FROM SHORE. ESTIMATES DO NOT INCLUDE TEXAS DATA.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1981-1996 FOR THE ATLANTIC AND GULF COASTS.

YEAR	SPOTTED SEATROUT						STRIPED BASS					
	INLAND			OCEAN 3 TO 200 MILES			INLAND			OCEAN 0 TO 3MILES		
	EST	PSE (%)		EST	PSE (%)		EST	PSE (%)		EST	PSE (%)	
1981.	2,730	18	22	549	25	1,177	37	532	39	245	43	
1982.	4,391	12	13	1,038	19	297	29	1,773	62	453	32	
1983.	3,610	16	15	3,318	24	360	26	2,056	72	282	50	
1984.	2,947	39	20	1,600	44	410	41	874	53	0	0	
1985.	3,328	10	16	4,822	385	514	44	335	43	0	0	
1986.	10,210	29	7	1,618	13	220	56	810	32	98	70	
1987.	6,256	7	7	1,467	13	178	30	529	21	156	56	
1988.	7,868	5	9	1,782	17	417	22	710	26	195	35	
1989.	7,644	8	15	1,057	15	365	26	313	25	64	40	
1990.	7,886	8	10	304	22	1,200	17	864	17	232	49	
1991.	8,899	7	7	576	16	1,764	13	1,559	14	383	25	
1992.	7,706	5	7	678	17	2,185	13	1,641	18	241	23	
1993.	7,268	5	7	345	20	2,718	9	2,188	19	760	18	
1994.	7,395	4	6	263	16	4,160	10	2,296	10	357	20	
1995.	8,554	5	5	194	24	6,001	8	4,403	13	861	12	
1996.	7,067	6	7	175	24	6,004	7	6,959	8	1,656	16	
THOUSANDS OF POUNDS												
YEAR	SUMMER FLOUNDER						TAUTOG					
	INLAND			OCEAN 3 TO 200 MILES			INLAND			OCEAN 0 TO 3MILES		
	EST	PSE (%)		EST	PSE (%)		EST	PSE (%)		EST	PSE (%)	
1981.	6,358	11	15	717	22	1,536	24	1,976	32	604	26	
1982.	6,905	8	45	1,281	30	2,502	15	2,928	17	2,908	20	
1983.	17,452	10	16	8,443	12	1,890	20	2,474	16	1,386	28	
1984.	7,751	8	12	1,433	21	1,457	13	3,650	29	273	22	
1985.	4,675	11	12	2,343	26	2,260	18	1,245	29	800	26	
1986.	8,733	13	12	803	19	5,250	11	8,551	17	3,105	22	
1987.	4,361	9	15	1,003	27	3,135	16	2,469	18	3,285	19	
1988.	8,000	5	8	1,926	10	4,751	19	2,562	17	1,989	29	
1989.	1,659	7	11	142	17	4,035	8	1,286	14	1,059	21	
1990.	2,720	6	7	302	15	3,114	10	1,072	14	970	15	
1991.	4,584	6	6	385	19	3,948	8	2,739	12	1,418	14	
1992.	4,255	5	7	233	17	4,167	12	1,670	12	1,834	18	
1993.	5,563	5	9	229	21	3,824	10	1,065	19	1,038	22	
1994.	6,461	5	7	224	18	2,029	20	510	23	929	22	
1995.	4,084	6	9	321	17	2,388	13	1,407	16	809	19	
1996.	6,256	4	6	676	14	1,516	13	1,702	23	1,048	18	
THOUSANDS OF POUNDS												

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR. "OCEAN TO 3 MILES" INCLUDES TRIPS OFF OF FLORIDA'S WEST COAST FROM 0 TO 10 MILES FROM SHORE (STATE TERRITORIAL WATERS) WHILE "OCEAN 3 TO 200 MILES" INCLUDES TRIPS OFF FLORIDA'S WEST COAST BEYOND 10 MILES FROM SHORE. ESTIMATES DO NOT INCLUDE TEXAS DATA.

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1981-1996 FOR THE ATLANTIC AND GULF COASTS.

YEAR	VERMILION SNAPPER										WEAKFISH																			
	INLAND					OCEAN 0 TO 3MILES					OCEAN 3 TO 200 MILES					INLAND					OCEAN 0 TO 3MILES					OCEAN 3 TO 200 MILES				
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	THOUSANDS OF POUNDS	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)			
1981.	0	0	51	24	39	33	4,897	15	6,878	31	4,330	25																		
1982.	0	0	80	29	424	22	1,754	20	4,693	22	1,838	34																		
1983.	0	0	32	22	448	42	7,078	14	2,606	34	2,046	26																		
1984.	0	0	51	28	314	15	917	35	4,436	31	1,661	22																		
1985.	1	100	214	46	467	36	2,288	16	1,549	23	1,652	17																		
1986.	5	47	162	38	777	47	4,704	12	3,032	17	2,406	22																		
1987.	0	0	116	44	593	28	4,081	21	1,531	23	1,138	17																		
1988.	0	93	164	26	437	17	3,188	13	1,618	33	1,525	15																		
1989.	0	0	108	34	409	19	1,645	9	459	17	74	32																		
1990.	2	59	107	26	530	25	904	10	320	17	123	19																		
1991.	0	0	390	31	544	25	1,758	8	235	18	138	28																		
1992.	1	55	101	24	619	10	1,142	9	218	24	39	33																		
1993.	2	78	96	24	760	11	882	11	184	18	37	41																		
1994.	0	0	92	44	589	11	1,320	12	318	14	157	21																		
1995.	2	73	159	18	447	12	1,486	8	311	19	55	24																		
1996.	0	0	60	23	249	18	2,417	8	452	18	83	17																		
YEAR	WINTER FLOUNDER										ALL FISHES																			
	INLAND					OCEAN 0 TO 3MILES					OCEAN 3 TO 200 MILES					INLAND					OCEAN 0 TO 3MILES					OCEAN 3 TO 200 MILES				
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	THOUSANDS OF POUNDS	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)			
1981.	10,022	12	2,171	18	231	25	71,676	6	98,352	7	108,186	6																		
1982.	9,063	25	7,123	54	232	27	63,442	7	133,832	7	118,086	8																		
1983.	7,351	12	2,134	16	155	22	86,471	4	112,276	6	140,402	8																		
1984.	12,239	13	2,826	17	92	35	63,233	7	110,956	5	87,776	5																		
1985.	12,398	18	2,916	25	59	67	75,551	4	84,193	5	104,484	14																		
1986.	6,030	13	1,216	12	389	53	99,744	5	125,953	4	141,926	5																		
1987.	5,860	12	4,346	18	762	35	73,288	4	101,190	4	115,498	4																		
1988.	7,527	12	880	16	373	20	81,229	3	73,900	3	96,185	3																		
1989.	4,354	15	958	18	52	23	66,085	3	63,606	3	93,632	4																		
1990.	2,404	11	684	10	68	25	56,246	3	52,613	3	64,145	5																		
1991.	2,404	12	441	11	54	31	86,109	3	71,720	3	70,412	4																		
1992.	804	10	234	14	34	33	74,019	2	52,204	3	56,177	3																		
1993.	1,766	27	309	19	55	28	67,278	2	50,334	3	67,633	3																		
1994.	1,311	14	163	13	39	23	70,268	2	47,577	2	65,591	3																		
1995.	1,362	12	108	24	79	65	68,871	2	47,165	3	86,120	6																		
1996.	1,617	12	80	18	15	34	66,313	2	47,625	3	71,416	3																		

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR. "OCEAN TO 3 MILES" INCLUDES TRIPS OFF OF FLORIDA'S WEST COAST FROM 0 TO 10 MILES FROM SHORE (STATE TERRITORIAL WATERS) WHILE "OCEAN 3 TO 200 MILES" INCLUDES TRIPS OFF FLORIDA'S WEST COAST BEYOND 10 MILES FROM SHORE. ESTIMATES DO NOT INCLUDE TEXAS DATA.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) WITH PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND PRIMARY FISHING AREA, 1993-1996 FOR THE PACIFIC COAST

YEAR	BARRED SANDBASS										BARRED SURFPERCH									
	INLAND					OCEAN 0 TO 3 MILES					INLAND					OCEAN 0 TO 3 MILES				
	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST
1993..	314	10	701	6	527	7	21	24	657	10	0	0	0	0	0	0	0	0	0	0
1994..	239	12	1,056	6	193	10	4	47	381	12	0	100	0	0	0	0	0	0	0	0
1995..	293	19	841	7	379	10	8	33	664	10	0	0	0	0	0	0	0	0	0	0
1996..	240	11	937	6	309	9	21	45	521	11	0	0	0	0	0	0	0	0	0	0

YEAR	BLACK ROCKFISH										BLUE ROCKFISH									
	INLAND					OCEAN 0 TO 3 MILES					INLAND					OCEAN 0 TO 3 MILES				
	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST
1993..	51	14	811	7	87	15	21	24	1,786	7	55	12	55	12	55	12	55	12	55	12
1994..	27	17	656	7	11	27	0	64	490	8	53	19	53	19	53	19	53	19	53	19
1995..	22	18	580	7	23	19	9	56	418	8	14	27	14	27	14	27	14	27	14	27
1996..	64	14	551	8	117	20	10	29	466	8	44	15	44	15	44	15	44	15	44	15

YEAR	BOCACCIO										CABEZON									
	INLAND					OCEAN 0 TO 3 MILES					INLAND					OCEAN 0 TO 3 MILES				
	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST
1993..	7	48	21	17	119	16	14	14	90	8	4	28	4	28	4	4	28	4	28	4
1994..	0	100	26	25	152	16	6	17	67	10	3	28	3	28	3	3	28	3	28	3
1995..	0	0	6	29	18	22	4	30	79	12	2	44	2	44	2	2	44	2	44	2
1996..	1	76	18	23	34	21	30	22	95	10	2	28	2	28	2	2	28	2	28	2

YEAR	CALIFORNIA HALIBUT										CANARY ROCKFISH									
	INLAND					OCEAN 0 TO 3 MILES					INLAND					OCEAN 0 TO 3 MILES				
	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST
1993..	138	11	166	9	42	18	3	29	189	9	38	15	38	15	38	15	38	15	38	15
1994..	191	10	263	9	37	17	0	0	160	9	18	14	18	14	18	14	18	14	18	14
1995..	446	8	451	9	26	19	1	100	156	13	44	11	44	11	44	11	44	11	44	11
1996..	344	8	318	9	50	13	1	38	84	11	22	16	22	16	22	16	22	16	22	16

YEAR	CHILIPEPPER ROCKFISH										KELP BASS									
	INLAND					OCEAN 0 TO 3 MILES					INLAND					OCEAN 0 TO 3 MILES				
	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST
1993..	0	0	12	31	34	33	131	13	1,863	6	616	9	616	9	616	9	616	9	616	9
1994..	0	0	10	60	47	17	101	14	1,348	5	399	9	399	9	399	9	399	9	399	9
1995..	0	0	6	56	22	22	104	19	1,313	6	182	15	182	15	182	15	182	15	182	15
1996..	0	0	3	44	19	23	61	16	1,300	5	196	12	196	12	196	12	196	12	196	12

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.
1993-1995 ESTIMATES DO NOT INCLUDE WASHINGTON STATE DATA.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) WITH PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND PRIMARY FISHING AREA, 1993-1996 FOR THE PACIFIC COAST

YEAR	KELP GREENLING						LINGCOD					
	INLAND		OCEAN 0 TO 3 MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3 MILES		OCEAN 3 TO 200 MILES	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
1993..	83	15	122	9	4	37	26	13	315	6	40	12
1994..	23	18	77	10	1	39	9	34	235	7	18	13
1995..	31	15	63	11	1	41	13	27	204	7	26	15
1996..	163	9	76	10	1	41	116	11	228	7	27	11
NUMBER IN THOUSANDS												
YEAR	PACIFIC BARRACUDA						PACIFIC COD					
	INLAND		OCEAN 0 TO 3 MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3 MILES		OCEAN 3 TO 200 MILES	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
1993..	74	30	785	8	391	8	0	0	0	0	0	0
1994..	61	25	1,107	8	597	9	0	0	1	63	0	0
1995..	41	30	1,136	7	202	11	0	0	0	0	0	0
1996..	11	26	293	8	210	9	11	45	0	0	0	0
NUMBER IN THOUSANDS												
YEAR	PACIFIC CHUB MACKEREL						REDTAIL SURFPERCH					
	INLAND		OCEAN 0 TO 3 MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3 MILES		OCEAN 3 TO 200 MILES	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
1993..	397	13	2,678	5	1,576	7	1	46	68	17	0	0
1994..	567	19	3,522	6	1,225	8	2	32	88	18	0	0
1995..	477	13	3,000	7	1,669	9	13	22	78	16	0	0
1996..	464	9	3,806	5	1,237	7	26	36	85	27	0	0
NUMBER IN THOUSANDS												
YEAR	STRIPED SURFPERCH						WHITE CROAKER					
	INLAND		OCEAN 0 TO 3 MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3 MILES		OCEAN 3 TO 200 MILES	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
1993..	49	13	83	12	0	0	438	10	1,388	7	193	12
1994..	14	17	58	16	0	0	175	14	657	11	68	21
1995..	33	48	66	14	0	0	371	10	623	8	414	50
1996..	191	17	95	16	0	0	615	12	1,160	10	184	22
NUMBER IN THOUSANDS												
YEAR	WHITE STURGEON						ALL FISHES					
	INLAND		OCEAN 0 TO 3 MILES		OCEAN 3 TO 200 MILES		INLAND		OCEAN 0 TO 3 MILES		OCEAN 3 TO 200 MILES	
	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)	EST	PSE (%)
1993..	21	17	1	58	0	0	5,214	4	20,347	3	5,361	3
1994..	5	30	0	0	0	0	3,492	5	18,283	3	5,394	3
1995..	47	19	0	0	0	0	4,965	4	17,841	3	4,803	6
1996..	21	15	1	67	0	0	12,975	9	17,255	3	3,818	3
NUMBER IN THOUSANDS												

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.
1993-1995 ESTIMATES DO NOT INCLUDE WASHINGTON STATE DATA.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND PRIMARY FISHING AREA, 1993-1996 FOR THE PACIFIC COAST

YEAR	BARRED SANDBASS										BARRED SURPERCH									
	OCEAN 0 TO 3 MILES					OCEAN 3 TO 200 MILES					INLAND					OCEAN 0 TO 3 MILES				
	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	THOUSANDS OF POUNDS	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST
1993..	143	14	537	9	368	9	368	9	368	9	5	26	310	13	310	13	310	13	310	13
1994..	37	29	858	8	138	12	138	12	138	12	2	59	165	14	165	14	165	14	165	14
1995..	52	21	820	10	595	12	595	12	595	12	7	37	347	12	347	12	347	12	347	12
1996..	46	19	747	8	405	11	405	11	405	11	14	46	292	14	292	14	292	14	292	14
YEAR	BLACK ROCKFISH										BLUE ROCKFISH									
	OCEAN 0 TO 3 MILES					OCEAN 3 TO 200 MILES					INLAND					OCEAN 0 TO 3 MILES				
	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	THOUSANDS OF POUNDS	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST
1993..	73	16	1,390	8	158	16	158	16	158	16	35	26	1,209	8	1,209	8	1,209	8	1,209	8
1994..	30	20	1,095	8	25	46	25	46	25	46	0	66	475	8	475	8	475	8	475	8
1995..	26	21	1,027	7	68	21	68	21	68	21	5	53	376	9	376	9	376	9	376	9
1996..	140	17	1,053	8	212	35	212	35	212	35	7	27	444	9	444	9	444	9	444	9
YEAR	BOCACCIO										CABEZON									
	OCEAN 0 TO 3 MILES					OCEAN 3 TO 200 MILES					INLAND					OCEAN 0 TO 3 MILES				
	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	THOUSANDS OF POUNDS	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST
1993..	4	61	25	20	242	15	242	15	242	15	26	17	226	9	226	9	226	9	226	9
1994..	0	0	57	31	367	19	367	19	367	19	5	33	160	10	160	10	160	10	160	10
1995..	0	0	9	43	59	23	59	23	59	23	3	38	180	13	180	13	180	13	180	13
1996..	0	100	44	28	118	24	118	24	118	24	51	17	224	11	224	11	224	11	224	11
YEAR	CALIFORNIA HALIBUT										CANARY ROCKFISH									
	OCEAN 0 TO 3 MILES					OCEAN 3 TO 200 MILES					INLAND					OCEAN 0 TO 3 MILES				
	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	THOUSANDS OF POUNDS	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST
1993..	146	16	397	16	52	23	52	23	52	23	7	31	189	9	189	9	189	9	189	9
1994..	264	14	420	14	106	25	106	25	106	25	0	0	162	9	162	9	162	9	162	9
1995..	1,384	12	930	12	35	29	35	29	35	29	0	100	180	12	180	12	180	12	180	12
1996..	1,047	13	495	13	77	26	77	26	77	26	2	34	98	11	98	11	98	11	98	11
YEAR	CHILIPEPPER ROCKFISH										KELP BASS									
	OCEAN 0 TO 3 MILES					OCEAN 3 TO 200 MILES					INLAND					OCEAN 0 TO 3 MILES				
	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	THOUSANDS OF POUNDS	EST	PSE (%)	EST	PSE (%)	EST	EST	PSE (%)	EST	PSE (%)	EST
1993..	0	0	7	34	29	50	29	50	50	50	42	24	1,119	8	1,119	8	1,119	8	1,119	8
1994..	0	0	0	0	20	20	20	20	20	20	10	32	1,049	8	1,049	8	1,049	8	1,049	8
1995..	0	0	4	59	19	29	19	29	29	29	7	40	963	8	963	8	963	8	963	8
1996..	0	0	4	64	27	31	27	31	31	31	11	39	679	7	679	7	679	7	679	7

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.
1993-1995 ESTIMATES DO NOT INCLUDE WASHINGTON STATE DATA.

U.S. MARINE RECREATIONAL FISHERIES

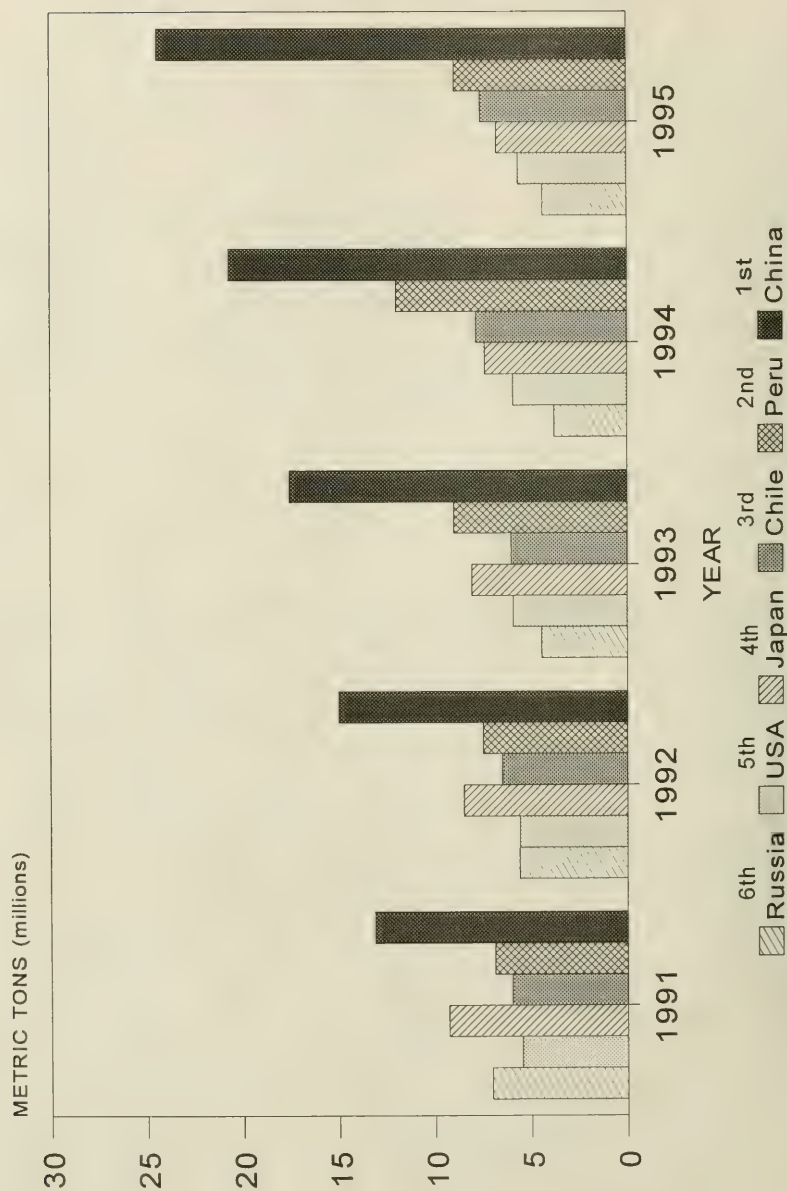
81

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND PRIMARY FISHING AREA, 1993-1996 FOR THE PACIFIC COAST

YEAR	KELP GREENLING						LINGCOD					
	OCEAN 0 TO 3 MILES			OCEAN 3 TO 200 MILES			INLAND			OCEAN 0 TO 3 MILES		
	EST	PSE (%)		EST	PSE (%)		EST	PSE (%)		EST	PSE (%)	
1993.	55	14	138	10	2	38	88	15	1,333	7	184	17
1994.	19	22	76	10	0	42	14	22	828	9	64	18
1995.	18	15	66	12	1	54	23	25	752	10	81	18
1996.	134	11	84	11	2	38	167	16	883	9	121	17
YEAR	PACIFIC BARRACUDA						PACIFIC COD					
	OCEAN 0 TO 3 MILES			OCEAN 3 TO 200 MILES			INLAND			OCEAN 0 TO 3 MILES		
	EST	PSE (%)		EST	PSE (%)		EST	PSE (%)		EST	PSE (%)	
1993.	25	35	901	13	762	11	0	0	0	0	0	0
1994.	11	43	989	10	1,016	13	0	0	1	72	0	0
1995.	7	63	2,123	9	361	16	0	0	0	0	0	0
1996.	3	46	506	11	486	13	14	44	0	0	0	0
YEAR	PACIFIC CHUB MACKEREL						RETAIL SURFPERCH					
	OCEAN 0 TO 3 MILES			OCEAN 3 TO 200 MILES			INLAND			OCEAN 0 TO 3 MILES		
	EST	PSE (%)		EST	PSE (%)		EST	PSE (%)		EST	PSE (%)	
1993.	148	24	761	7	465	13	1	47	57	19	0	0
1994.	179	20	1,570	10	475	14	2	33	69	19	0	0
1995.	155	18	1,101	9	907	15	16	24	47	18	0	0
1996.	125	13	1,018	7	378	13	26	39	75	28	0	0
YEAR	STRIPED SURFPERCH						WHITE CROAKER					
	OCEAN 0 TO 3 MILES			OCEAN 3 TO 200 MILES			INLAND			OCEAN 0 TO 3 MILES		
	EST	PSE (%)		EST	PSE (%)		EST	PSE (%)		EST	PSE (%)	
1993.	42	14	88	13	0	0	128	13	277	9	20	23
1994.	12	19	49	19	0	0	32	32	129	17	13	79
1995.	35	54	64	16	0	0	128	14	160	12	122	66
1996.	175	19	106	17	0	0	257	13	355	14	47	39
YEAR	WHITE STURGEON						ALL FISHES					
	OCEAN 0 TO 3 MILES			OCEAN 3 TO 200 MILES			INLAND			OCEAN 0 TO 3 MILES		
	EST	PSE (%)		EST	PSE (%)		EST	PSE (%)		EST	PSE (%)	
1993.	205	24	2	100	0	0	2,731	5	13,027	2	5,177	4
1994.	44	36	0	0	0	0	1,419	6	11,596	2	4,909	4
1995.	764	21	0	0	0	0	4,632	6	14,071	3	5,610	6
1996.	534	16	9	73	0	0	8,689	4	10,365	3	3,909	5

NOTE:--EST = ESTIMATE. PSE (%) = PROPORTIONAL STANDARD ERROR.
1993-1995 ESTIMATES DO NOT INCLUDE WASHINGTON STATE DATA.

WORLD COMMERCIAL CATCH BY LEADING COUNTRIES, 1991-1995



U.S. AND WORLD COMMERCIAL FISH CATCHES, 1958-95

Year	U.S. commercial catch and exvessel value			World commercial catch				
	Published by U.S. (excludes weight of mollusk shells)	Published by FAO (1)	Exvessel value	Fresh- water	Marine			Grand total
					Peruvian anchovy	Other (2)	Total	
	-Million metric tons- Live weight		Billion dollars		-Million metric tons- Live weight			
1958..	2.2	2.7	0.4	4.5	0.8	28.0	28.8	33.3
1959..	2.3	2.9	0.4	5.1	2.0	29.8	31.8	36.9
1960..	2.2	2.8	0.4	5.6	3.5	31.1	34.6	40.2
1961..	2.4	2.9	0.4	5.7	5.3	32.6	37.9	43.6
1962..	2.4	3.0	0.4	5.8	7.1	31.9	39.0	44.8
1963..	2.2	2.8	0.4	5.9	7.2	33.5	40.7	46.6
1964..	2.1	2.6	0.4	6.2	9.8	35.9	45.7	51.9
1965..	2.2	2.7	0.4	7.0	7.7	38.5	46.2	53.2
1966..	1.9	2.5	0.5	7.3	9.6	40.4	50.0	57.3
1967..	1.8	2.4	0.4	7.2	10.5	42.7	53.2	60.4
1968..	1.9	2.5	0.5	7.4	11.3	45.2	56.5	63.9
1969..	1.9	2.5	0.5	7.6	9.7	47.1	56.8	64.4
1970..	2.2	2.8	0.6	8.4	13.1	44.1	57.2	65.6
1971..	2.3	2.9	0.7	9.0	11.2	45.9	57.1	66.1
1972..	2.2	2.8	0.7	5.7	4.8	51.5	56.3	62.0
1973..	2.2	2.8	0.9	5.8	1.7	55.2	56.9	62.7
1974..	2.3	2.8	0.9	5.8	4.0	56.0	60.0	65.8
1975..	2.2	2.8	1.0	6.0	3.3	56.4	59.7	65.7
1976..	2.4	3.0	1.3	5.7	4.3	59.1	63.4	69.1
1977..	2.4	3.0	1.5	5.8	0.8	61.6	62.4	68.2
1978..	2.7	3.4	1.9	5.7	1.4	63.1	64.5	70.2
1979..	2.8	3.5	2.2	5.9	1.4	63.6	65.0	70.9
1980..	2.9	3.6	2.2	6.2	0.8	65.1	65.9	72.1
1981..	2.7	3.8	2.4	6.6	1.6	66.4	68.0	74.6
1982..	2.9	4.0	2.4	6.8	1.8	68.2	70.0	76.8
1983..	2.9	4.3	2.4	7.5	0.1	69.9	70.0	77.5
1984..	2.9	5.0	2.3	8.0	0.1	75.8	75.9	83.9
1985..	2.8	4.9	2.3	8.7	1.0	76.7	77.7	86.4
1986..	2.7	5.2	2.8	9.7	4.9	78.2	83.1	92.8
1987..	3.1	6.0	3.1	10.4	2.1	81.9	84.0	94.4
1988..	3.3	5.9	3.5	11.1	3.6	84.4	88.0	99.1
1989..	3.8	5.8	3.2	11.4	5.4	83.3	88.7	100.1
1990..	4.3	5.9	3.5	11.4	3.8	82.8	86.6	98.0
1991..	4.3	5.5	3.3	12.4	4.0	81.4	85.4	97.8
1992..	4.4	5.6	3.7	13.2	6.2	80.7	86.9	100.1
1993..	4.7	5.9	3.5	14.7	8.5	80.0	88.5	103.2
1994..	4.7	5.9	3.8	16.4	12.5	81.6	94.1	110.5
1995..	4.5	5.6	3.8	18.1	8.6	86.2	94.8	112.9

(1) Includes U.S.-flag vessel landings at foreign ports, transfer of catches onto foreign vessels within the U.S. EEZ (joint ventures), and the weight of mollusk shells. (2) Includes diadromous fishes including salmon and other anadromous fishes and catadromous fishes such as eels.

Note:--There are 2,204.6 pounds in a metric ton. Prior to 1970, the world commercial catch of whales and seals is excluded. For the years 1970-1995, data for marine mammals and aquatic plants are excluded.

Source:--Fishery Statistics of the United States; Fisheries of the United States; Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, Rome; various issues.

WORLD FISHERIES

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY COUNTRIES,
1991-95 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Country	1991 (1)	1992 (1)	1993 (1)	1994 (1)	1995
-----Thousand metric tons-----					
Live-weight					
China.....	13,125	15,007	17,568	20,719	24,433
Peru.....	6,888	7,503	9,010	11,997	8,943
Chile.....	6,006	6,502	6,035	7,838	7,591
Japan.....	9,301	8,502	8,081	7,396	6,758
United States (2)...	5,487	5,600	5,934	5,922	5,634
India.....	4,045	4,233	4,546	4,738	4,904
Russia.....	7,047	5,611	4,461	3,781	4,374
Indonesia.....	3,352	3,439	3,685	3,917	4,118
Thailand.....	2,972	3,246	3,395	3,537	3,502
Norway.....	2,173	2,561	2,562	2,551	2,808
South Korea.....	2,513	2,696	2,649	2,700	2,688
Philippines.....	2,316	2,272	2,264	2,276	2,269
Denmark.....	1,793	1,996	1,656	1,916	2,041
North Korea (3)....	1,745	1,780	1,782	1,802	1,850
Iceland.....	1,050	1,577	1,718	1,560	1,616
Mexico.....	1,453	1,247	1,201	1,264	1,358
Spain (3).....	1,273	1,260	1,255	1,372	1,320
Taiwan.....	1,307	1,314	1,416	1,249	1,288
Malaysia.....	978	1,105	1,155	1,182	1,240
Viet Nam (3).....	1,020	1,080	1,100	1,150	1,200
Bangladesh.....	893	967	1,047	1,091	1,170
Argentina.....	641	705	932	949	1,149
United Kingdom.....	851	870	929	964	1,004
Canada.....	1,565	1,372	1,212	1,089	901
Morocco.....	593	548	623	752	846
Burma.....	769	800	837	824	832
Brazil (3).....	800	790	780	820	800
France.....	819	821	860	853	793
Turkey.....	365	454	559	603	652
New Zealand.....	417	503	470	492	612
Italy.....	552	558	565	576	610
Ecuador.....	374	347	331	340	592
South Africa.....	501	696	563	521	575
Pakistan.....	515	553	622	552	541
Netherlands.....	459	487	533	530	521
Venezuela.....	344	333	397	441	505
Poland.....	457	506	423	460	451
Ukraine.....	865	526	371	311	425
Ireland.....	265	276	308	319	413
Sweden.....	245	315	348	394	412
All others.....	9,663	9,219	8,989	8,790	9,171
Total.....	97,797	100,177	103,172	110,538	112,910

(1) Revised.

(2) Includes the weight of clam, oyster, scallop, and other mollusk shells. This weight is not included in U.S. landings statistics shown elsewhere.

(3) Data estimated by FAO.

Note:--Statistics on quantities caught by recreational fishermen in the United States are excluded

Source:--Food and Agriculture Organization of the United Nations (FAO)

**WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY CONTINENT,
1991-95 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)**

Continent	1991 (1)	1992 (1)	1993 (1)	1994 (1)	1995
-----Thousand metric tons----- Live-weight					
North America.....	9,122	8,780	8,887	8,834	8,490
South America.....	15,386	16,556	17,837	22,727	19,990
Europe.....	11,455	12,743	12,607	12,896	13,463
Former USSR.....	9,447	6,862	5,448	4,579	5,313
Asia.....	46,587	48,896	52,168	55,243	59,042
Africa.....	4,851	5,292	5,191	5,214	5,475
Oceania.....	832	916	887	893	1,009
Other.....	117	132	147	152	128
Total.....	97,797	100,177	103,172	110,538	112,910

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO)

**WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY MAJOR FISHING
AREAS, 1991-95 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)**

Area	1991 (1)	1992 (1)	1993 (1)	1994 (1)	1995
-----Thousand metric tons----- Live-weight					
Marine Areas:					
Pacific Ocean....	52,358	52,844	54,334	59,975	59,185
Atlantic Ocean...	23,792	24,372	23,748	23,720	24,690
Indian Ocean.....	6,879	7,356	7,857	7,818	8,031
Total.....	83,029	84,572	85,939	91,513	91,906
Inland waters:					
North America....	551	583	578	573	549
South America....	331	352	376	391	415
Europe.....	493	504	497	510	528
Former USSR.....	764	682	568	490	489
Asia.....	10,798	11,627	13,336	15,188	17,091
Africa.....	1,808	1,832	1,855	1,849	1,908
Oceania.....	23	25	23	24	24
Total.....	14,768	15,605	17,233	19,025	21,004
Grand total...	97,797	100,177	103,172	110,538	112,910

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO)

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY SPECIES GROUPS, 1991-95, (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Species group	1991 (1)	1992 (1)	1993 (1)	1994 (1)	1995
	-----Thousand metric tons----- Metric tons				
Carp, barbels, cyprinids.....	6,483	7,227	8,177	9,533	10,881
Cods, hakes, haddocks.....	10,297	10,456	9,931	9,665	10,618
Flatfish.....	1,103	1,179	1,116	1,000	930
Herrings, sardines, anchovies...	21,725	21,196	21,925	25,856	22,017
Jacks, mullets, sauries.....	10,387	10,539	10,147	10,089	11,195
Mackerel, snoeks, cutlassfishes.	3,467	3,448	4,010	4,522	4,654
Redfish, basses, congers.....	6,021	6,058	5,822	6,456	6,960
River eels.....	202	208	203	205	205
Salmons, trouts, smelts.....	1,710	1,478	1,712	1,814	2,101
Shads.....	681	705	679	645	674
Sharks, rays, chimaeras.....	706	725	737	750	755
Sturgeons, paddlefish.....	15	14	9	8	7
Tilapias.....	1,002	1,063	1,087	1,134	1,213
Tunas, bonitos, billfishes.....	4,632	4,518	4,585	4,680	4,783
Other fishes.....	15,513	16,250	17,320	17,511	18,053
Crabs.....	1,020	1,062	1,066	1,258	1,293
Krill.....	356	305	89	82	119
Lobsters.....	225	213	212	222	227
Shrimp.....	2,836	2,951	2,920	3,118	3,193
Other crustaceans.....	848	909	1,165	1,301	1,472
Abalones, winkles, conchs.....	80	85	94	100	100
Clams, cockles, arkshells.....	1,545	1,803	1,967	2,021	2,134
Mussels.....	1,316	1,338	1,312	1,262	1,265
Oysters.....	990	1,083	1,171	1,221	1,339
Scallops.....	847	1,056	1,459	1,634	1,652
Squids, cuttlefishes, octopus...	2,572	2,742	2,722	2,776	2,841
Other mollusks.....	834	944	1,110	1,170	1,658
Sea urchins, other echinoderms..	100	102	105	117	128
Miscellaneous.....	284	520	320	388	443
Total.....	97,797	100,177	103,172	110,538	112,910

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO)

**DISPOSITION OF WORLD COMMERCIAL CATCH, 1991-95
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)**

Item	1991 (1)	1992 (1)	1993 (1)	1994 (1)	1995
	-----Percent of total-----				
Marketed fresh.....	22.4	26.2	26.2	27.2	31.6
Frozen.....	23.9	23.7	23.5	22.0	21.4
Canned.....	13.1	12.2	12.3	11.4	11.0
Cured.....	11.1	9.8	9.6	9.2	9.0
Reduced to meal and oil (2).....	27.9	26.3	26.6	28.6	25.3
Miscellaneous purposes.....	1.6	1.8	1.8	1.6	1.7
Total.....	100.0	100.0	100.0	100.0	100.0

(1) Revised.

(2) Only whole fish destined for the manufacture of oils and meals are included. Raw material for reduction derived from fish primarily destined for marketing fresh, frozen, canned, cured, and miscellaneous purposes is excluded; such waste quantities are included under the other disposition channels.

Source:--Food and Agriculture Organization of the United Nations (FAO)

**WORLD IMPORTS AND EXPORTS OF SEVEN FISHERY COMMODITY GROUPS,
BY LEADING COUNTRIES, 1991-95**

Country	1991 (1)	1992 (1)	1993 (1)	1994 (1)	1995
IMPORTS					
-----Thousand U.S. dollars-----					
Japan.....	12,085,125	12,831,760	14,187,149	16,140,465	17,853,481
United States.....	5,999,580	6,024,064	6,290,233	7,043,431	7,141,428
France.....	2,925,994	2,934,588	2,556,151	2,796,719	3,221,298
Spain.....	2,748,304	2,898,232	2,629,799	2,638,737	3,105,684
Germany.....	2,114,720	2,190,892	1,884,301	2,316,449	2,478,817
Italy.....	2,689,639	2,643,440	2,131,181	2,257,462	2,281,316
United Kingdom.....	1,911,905	1,906,861	1,628,852	1,880,350	1,910,091
Hong Kong.....	1,232,076	1,398,181	1,376,856	1,642,105	1,827,691
Denmark.....	1,148,255	1,197,370	1,094,253	1,415,239	1,573,732
Netherlands.....	867,511	888,606	791,608	1,017,635	1,191,857
Belgium.....	775,966	828,086	730,459	920,918	1,035,818
Canada.....	675,242	686,876	821,404	913,404	1,034,070
China.....	438,090	680,844	575,929	855,706	941,293
Thailand.....	1,052,918	942,090	830,480	815,616	825,606
South Korea.....	568,229	498,036	537,346	718,451	824,817
Portugal.....	757,843	734,928	627,713	669,888	763,245
Singapore.....	460,545	543,769	566,502	619,595	659,681
Taiwan.....	458,830	491,029	544,243	560,799	589,723
Sweden.....	441,490	467,773	371,756	448,661	546,076
Other Countries.....	4,137,182	4,467,246	4,394,097	5,391,889	6,034,407
Total.....	43,489,444	45,254,671	44,570,312	51,063,519	55,840,131
EXPORTS					
Thailand.....	2,901,360	3,071,780	3,404,268	4,190,036	4,449,457
United States.....	3,281,746	3,582,545	3,179,474	3,229,585	3,383,589
Norway.....	2,282,247	2,436,832	2,302,346	2,718,132	3,122,662
China.....	1,181,989	1,559,977	1,542,429	2,320,125	2,854,373
Denmark.....	2,302,299	2,319,917	2,150,665	2,359,034	2,459,629
Taiwan.....	1,524,735	1,802,097	2,369,422	2,213,259	2,328,105
Canada.....	2,168,122	2,085,495	2,055,438	2,182,078	2,314,413
Chile.....	1,066,781	1,252,364	1,124,679	1,303,974	1,704,260
Indonesia.....	1,186,062	1,178,552	1,419,492	1,583,416	1,666,752
Russia.....	-	826,299	1,471,446	1,720,459	1,628,204
South Korea.....	1,490,659	1,359,050	1,335,238	1,411,052	1,564,878
Netherlands.....	1,356,885	1,405,567	1,296,340	1,435,824	1,447,239
Iceland.....	1,280,006	1,252,713	1,137,638	1,264,615	1,342,552
India.....	647,652	673,369	835,980	1,125,440	1,240,603
United Kingdom.....	1,121,885	1,146,138	1,036,674	1,180,158	1,195,477
Spain.....	772,651	712,729	813,750	1,021,015	1,190,676
France.....	925,560	955,379	857,752	909,734	993,364
Argentina.....	448,012	559,029	709,292	728,091	917,580
Germany.....	715,975	692,954	652,956	790,357	899,248
Other Countries.....	12,262,841	11,341,410	11,712,740	13,576,105	15,041,899
Total.....	38,917,467	40,214,196	41,408,019	47,262,489	51,744,960

(1) Revised.

Note:--Data on imports and exports cover the international trade of 1/6 countries or areas. The total value of exports is consistently less than the total value of imports, probably because charges for insurance, freight, and similar expenses were included in the import value but not in the export value. The seven fishery commodity groups covered by this table are: 1. Fish, fresh, chilled or frozen; 2. Fish, dried, salted, or smoked; 3. Crustaceans and mollusks, fresh, dried, salted,, etc.; 4. Fish products and preparations, whether or not in airtight containers; 5. Crustacean and mollusk products and preparations, whether or not in airtight containers; 6. Oils and fats, crude or refined, of aquatic animal origin; and 7. Meals, solubles and similar animal foodstuffs of aquatic animal origin.

Source:--Food and Agriculture Organization of the United Nations (FAO)

PROCESSED FISHERY PRODUCTS

VALUE OF PROCESSED FISHERY PRODUCTS FROM DOMESTIC CATCH & IMPORTED PRODUCTS 1992 - 1996

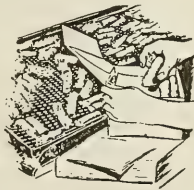


VALUE OF PROCESSED FISHERY PRODUCTS, 1995 AND 1996 (Processed from domestic catch and imported products)

Item	1995		1996 (1)	
	Thousand dollars	Percent of total	Thousand dollars	Percent of total
Edible:				
Fresh and frozen.....	5,301,256	70.4	5,078,177	68.6
Canned.....	1,544,208	20.5	1,428,900	19.3
Cured.....	99,117	1.3	112,778	1.5
Total edible.....	6,944,581	92.2	6,619,855	89.4
Industrial:				
Bait and animal food (canned).....	342,842	4.6	505,060	6.8
Meal, oil, and solubles.....	172,279	2.3	192,176	2.6
Other.....	74,264	1.0	85,583	1.2
Total industrial.....	589,385	7.8	782,819	10.6
Grand total.....	7,533,966	100.0	7,402,674	100.0

(1) Preliminary. May not add due to rounding.

Note:--Value is based on selling price at the plant.



FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP

U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1987-96

Year	Fish sticks		Fish portions		Breaded shrimp	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1987.....	98,927	142,946	323,968	446,459	108,937	371,798
1988.....	80,148	113,868	301,450	439,701	99,471	292,899
1989.....	89,112	116,440	279,864	400,351	120,927	404,535
1990.....	65,209	74,866	242,776	352,589	110,760	353,265
1991.....	63,286	77,877	204,697	313,400	116,335	335,880
1992.....	58,295	56,020	194,307	296,214	122,266	350,497
1993.....	67,959	67,975	206,165	313,195	111,489	316,722
1994.....	58,789	51,429	196,289	268,353	113,461	304,931
1995.....	74,066	73,478	251,217	356,518	100,522	299,355
1996.....	65,244	55,802	213,962	306,501	108,486	341,770

#

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1995 AND 1996

Species	Pounds per case	1995 (1)			1996		
		Standard cases	Thousand pound	Thousand dollars	Standard cases	Thousand pound	Thousand dollars
For human consumption:							
Fish:							
Herring.....	23.4	292,193	6,837	12,032	266,308	6,232	10,826
Salmon:							
Chinook.....	44.25	3,825	169	474	2,589	115	628
Chum.....	44.25	234,938	10,396	16,173	337,634	14,940	19,572
Pink.....	44.25	4,049,808	179,204	258,900	2,947,797	130,440	158,969
Coho.....	44.25	66,339	2,935	6,318	61,867	2,738	5,594
Sockeye.....	44.25	1,149,476	50,864	137,371	1,105,756	48,930	99,582
Total salmon...		5,504,386	243,568	419,236	4,455,643	197,163	284,345
Specialties.....	48	9,761	469	4,197	10,520	505	4,272
Sardines, Maine....	23.4	579,797	13,567	23,669	755,232	17,672	29,857
Tuna: (2)							
Albacore:							
Solid.....	18	7,718,778	138,938	326,701	7,798,889	140,380	310,999
Chunk.....	18	1,411,782	25,412	54,236	1,403,026	25,254	51,691
Total.....		9,130,560	164,350	380,937	9,201,915	165,634	362,690
Lightmeat:							
Solid.....	18	228,547	4,114	5,765	331,726	5,971	8,938
Chunk.....	18	27,676,500	498,117	551,839	28,011,722	504,211	585,296
Total.....		27,905,047	502,231	557,604	28,343,448	510,182	594,234
Total tuna...		37,035,607	666,581	938,541	37,545,363	675,816	956,924
Specialties.....	48	226	11	44	155	7	80
Other.....	48	327,419	15,716	21,502	324,317	15,567	12,185
Total fish.....	--	43,749,389	946,749	1,419,221	43,357,538	912,962	1,298,489
Shellfish:							
Clam and clam products: (3)							
Whole and minced.	15	2,865,294	42,979	61,677	3,057,118	45,856	61,987
Chowder and juice	30	2,491,088	74,733	38,198	2,385,018	71,551	46,164
Specialties.....	48	239,633	11,502	9,908	249,037	11,954	9,100
Crabs, natural....	19.5	3,309	65	356	4,778	93	380
Lobster meat and specialties.....	48	8,627	414	479	7,104	341	384
Oyster, specialties	48	124	6	76	175	8	131
Shrimp, Natural (4)	6.75	135,175	912	6,662	121,321	819	6,074
Other.....	48	156,374	7,506	7,631	195,574	9,388	6,191
Total shellfish.	--	5,899,624	138,117	124,987	6,020,125	140,010	130,411
Total for human consumption....	--	49,649,013	1,084,866	1,544,208	49,377,663	1,052,972	1,428,900
For bait and animal food	48	17,548,979	842,351	342,842	25,607,813	1,229,175	505,060
Grand total.....	--	67,197,992	1,927,217	1,887,050	74,985,476	2,282,147	1,933,960

(1) Revised.

(2) Flakes included with chunk.

(3) "Cut out" or "drained" weight of can contents are given for whole or minced clams, and net contents for other clam products.

(4) Drained weight.

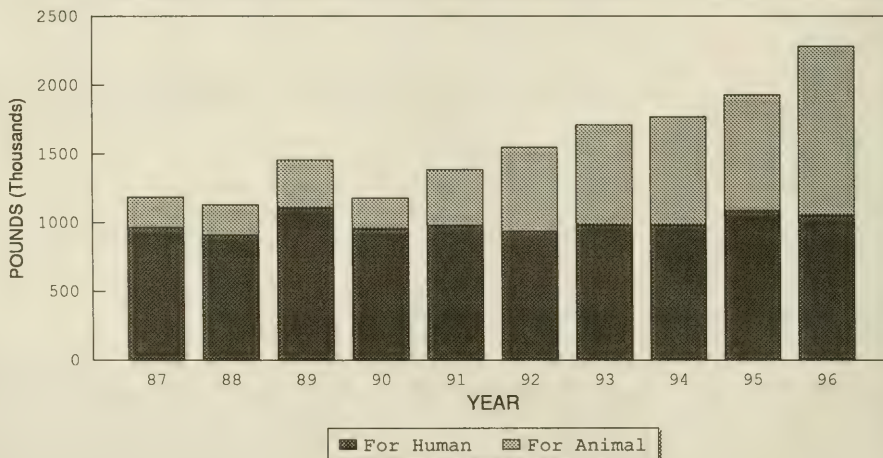
PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, 1987-96

Year	For human consumption		For animal food and bait		Total	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1987...	965,012	1,476,484	220,641	85,416	1,185,653	1,561,900
1988...	908,687	1,388,122	222,920	97,492	1,131,607	1,485,614
1989...	1,109,788	1,753,536	345,464	238,343	1,455,252	1,991,879
1990...	956,962	1,414,846	221,320	146,947	1,178,282	1,561,793
1991...	981,275	1,439,362	404,440	204,917	1,385,715	1,644,279
1992...	936,117	1,330,173	607,678	247,261	1,543,795	1,577,434
1993...	983,225	1,375,377	725,822	312,597	1,709,047	1,687,974
1994...	985,675	1,470,234	782,272	325,264	1,767,947	1,795,498
1995...	1,084,866	1,544,208	842,351	342,842	1,927,217	1,887,050
1996...	1,052,972	1,428,900	1,229,175	505,060	2,282,147	1,933,960

PRODUCTION OF CANNED FISHERY PRODUCTS, 1987-96



PROCESSED FISHERY PRODUCTS

93

INDUSTRIAL PRODUCTS

PRODUCTION OF MEAL, OIL, AND SOLUBLES, 1995 AND 1996

Product	1995 (1)		1996	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Dried scrap and meal:				
Fish:				
Menhaden.....	450,528	82,453	418,898	87,064
Tuna and mackerel....	64,548	8,140	52,258	7,682
Unclassified.....	135,748	30,579	149,772	46,223
Total.....	650,824	121,172	620,928	140,969
Shellfish.....	16,416	1,038	17,572	1,194
Total, scrap and meal	667,240	122,210	638,500	142,163
Solubles, total.....	89,513	7,809	81,994	6,068
Body oil:				
Menhaden.....	238,164	41,929	246,536	43,713
Unclassified.....	3,777	331	1,863	232
Total, oil.....	241,941	42,260	248,399	43,945

(1) Revised.

Note:--To convert pounds of oil to gallons divide by 7.75. The above data includes production in American Samoa and Puerto Rico.

PRODUCTION OF INDUSTRIAL PRODUCTS, 1987-96

Year	Quantity			Value		
	Meal	Solubles	Marine animal oil	Meal, solubles, and oil	Other industrial products	Grand total
	-----Thousand pounds-----			-----Thousand dollars-----		
1987.....	786,978	249,289	298,496	174,321	37,524	211,845
1988.....	643,796	223,449	224,733	188,843	46,737	235,580
1989.....	618,382	232,709	225,478	156,321	49,756	206,077
1990.....	577,498	185,660	281,949	163,796	42,759	206,555
1991.....	612,716	169,607	267,345	170,495	37,707	208,202
1992.....	644,512	93,007	184,725	157,693	45,310	203,003
1993.....	750,744	126,903	293,452	182,170	43,689	225,859
1994.....	807,833	146,568	291,882	186,222	61,992	248,214
1995.....	667,240	89,513	241,941	172,279	74,264	246,543
1996.....	638,500	81,994	248,399	192,176	85,583	277,759

Note:--Does not include the value of imported items that may be further processed.

U.S. COLD STORAGE HOLDINGS

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1996

Item	January 31	February 28	March 31	April 30	May 31	June 30
Fish	-----Thousand pounds-----					
Blocks:						
Cod.....	5,753	5,967	4,178	4,845	4,368	4,533
Flounder.....	1,015	970	1,041	1,095	951	836
Haddock.....	2,196	1,268	741	1,288	1,884	2,556
Ocean perch.....	138	144	149	176	92	100
Pollock: Alaska.....	10,972	13,923	17,119	15,404	14,549	13,215
Saithe and other....	5,673	3,481	4,791	6,553	10,253	9,029
Whiting.....	737	1,073	1,218	763	471	987
Minced (grated) all species...	3,492	2,941	4,866	6,803	12,946	15,769
Unclassified.....	2,997	2,372	2,413	3,301	3,370	1,565
Total blocks.....	32,973	32,139	36,516	40,228	48,884	48,590
Fillets and steaks:						
Cod.....	15,168	16,095	15,372	16,727	20,264	21,997
Flounder.....	4,903	4,402	4,537	4,572	4,274	4,463
Haddock.....	4,741	3,999	3,068	3,872	3,773	3,894
Halibut.....	968	882	732	613	912	606
Ocean perch.....	5,343	5,440	3,695	4,349	2,974	3,454
Pollock.....	11,810	12,006	9,187	10,052	7,035	8,323
Whiting.....	5,651	2,364	4,041	3,640	2,623	2,552
Unclassified.....	29,881	27,007	22,954	21,823	27,624	25,840
Total fillets and steaks...	78,465	72,195	63,586	65,648	69,479	71,129
Fish sticks and portions (cooked uncooked, all species). Round, dressed, etc.:	25,642	19,116	23,058	17,611	16,995	17,000
Catfish.....	10,525	8,716	9,301	9,022	9,608	8,486
Halibut.....	4,482	3,176	2,319	2,176	2,829	3,354
Rainbow trout.....	946	1,175	985	974	889	878
Salmon.....	57,092	44,429	33,642	23,481	13,714	11,971
Whiting.....	712	592	1,329	4,195	2,190	4,399
Unclassified.....	32,989	28,116	22,515	21,944	26,019	22,050
Surimi and analog products....	24,394	21,271	28,352	25,950	24,819	21,204
Shellfish						
Clams and clam meats.....	4,589	4,897	6,169	5,294	4,475	4,998
Crabs:						
King.....	4,109	2,984	2,665	2,295	2,530	2,715
Snow.....	7,523	5,762	12,229	12,919	10,356	9,575
Unclassified.....	8,062	6,879	7,822	6,234	4,676	3,497
Lobsters (spiny and other).....	4,282	5,122	3,730	2,832	2,515	2,386
Scallops.....	2,282	2,628	2,520	2,185	1,754	1,978
Shrimp:						
Raw, headless.....	13287	11787	8873	9587	7541	6,864
Breaded.....	5,138	5,637	4,574	5,618	4,362	4,422
Peeled.....	14,855	13,537	8,702	9,653	8,644	10,917
Unclassified.....	10,272	9,361	8,401	7,353	6,913	8,299
Total shrimp.....	43,552	40,322	30,550	32,211	27,460	30,502
Squid.....	20,035	21,056	19,538	18,709	14,728	11,988
Other shellfish.....	4,145	3,383	3,273	3,530	4,341	4,069
Bait and animal food.....	6,911	7,380	8,170	7,627	10,488	12,488
Cured fish.....	574	616	424	291	302	291
Total fish and shellfish...	374,284	331,954	318,693	305,356	299,051	293,548

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1996 - Continued

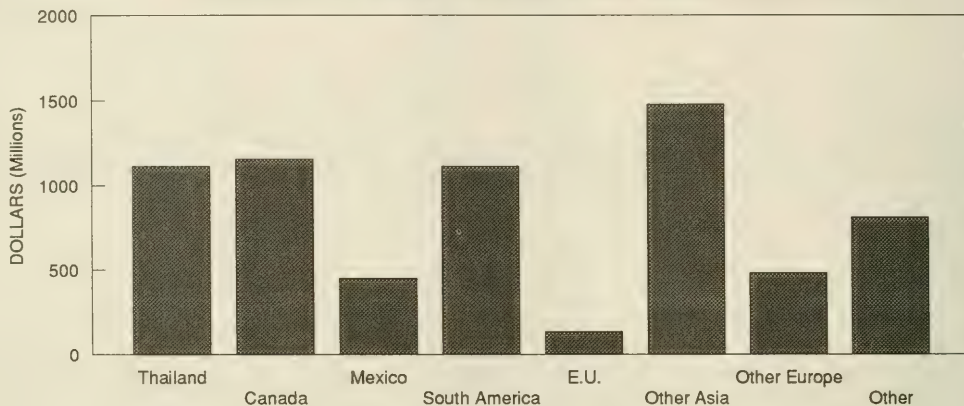
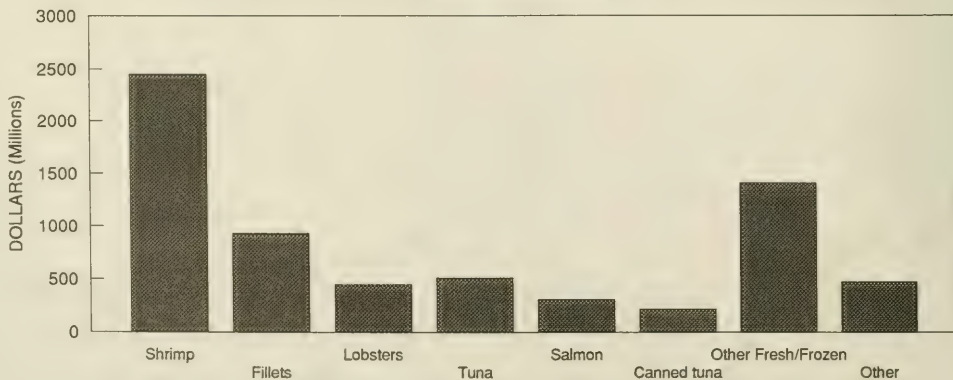
Item	July 31	August 31	September 30	October 31	November 30	December 31
Fish	----- --Thousand pounds-- -----					
Blocks:						
Cod.....	4,033	4,046	7,451	3,810	3,936	4,452
Flounder.....	939	964	983	1,385	972	947
Haddock.....	2,011	1,695	1,356	1,167	978	905
Ocean perch.....	133	186	182	181	270	222
Pollock: Alaska.....	13,681	12,963	14,758	18,953	23,499	26,590
Saithe and other....	7,472	5,041	3,285	8,307	10,378	11,162
Whiting.....	478	559	587	614	935	888
Minced (grated) all species...	16,084	8,313	16,230	12,888	6,397	13,261
Unclassified.....	2,015	1,374	1,422	1,529	1,933	2,097
Total blocks.....	46,846	35,141	46,254	48,834	49,298	60,524
Fillets and steaks:						
Cod.....	24,080	16,965	12,109	14,695	13,211	9,107
Flounder.....	8,895	5,539	5,176	5,373	5,719	4,778
Haddock.....	3,627	4,004	3,810	3,291	3,371	4,584
Halibut.....	560	432	515	604	517	663
Ocean perch.....	3,321	2,573	1,654	4,477	4,503	4,255
Pollock.....	12,916	7,603	8,380	13,413	11,781	12,725
Whiting.....	1,096	2,861	3,344	3,318	4,539	5,434
Unclassified.....	21,653	24,806	22,754	23,420	23,536	24,312
Total fillets and steaks.....	76,148	64,783	57,742	68,591	67,177	65,858
Fish sticks and portions						
(cooked uncooked, all species).	17,862	14,585	20,833	18,807	20,759	23,614
Round, dressed, etc.:						
Catfish.....	9,643	9,871	10,275	11,021	11,762	12,328
Halibut.....	4,073	6,673	8,019	8,366	7,811	6,300
Rainbow trout.....	711	539	493	447	488	75
Salmon.....	39,128	59,535	61,002	51,497	45,232	37,051
Whiting.....	2,282	1,590	1,392	1,130	1,137	918
Unclassified.....	33,847	36,778	37,901	40,125	41,232	44,608
Surimi and analog products...	15,846	15,682	16,340	20,855	19,915	18,000
Shellfish						
Clams and clam meats.....	5,813	8,062	4,809	7,939	7,778	2,146
Crabs:						
King.....	2,835	2,693	3,329	4,016	3,323	3,981
Snow.....	8,616	7,396	7,806	6,318	5,475	3,600
Unclassified.....	4,318	3,962	3,433	3,365	2,988	3,982
Lobsters (spiny and other).....	2,661	3,080	3,661	3,636	4,395	4,042
Scallops.....	2,448	3,545	2,509	2,407	2,416	2,238
Shrimp:						
Raw, headless.....	6,736	6,518	6,737	7,021	8,031	10,564
Breaded.....	5,993	9,306	5,122	5,602	6,039	5,662
Peeled.....	9,813	10,254	13,740	15,286	16,264	16,640
Unclassified.....	6,859	6,611	9,341	11,088	12,271	11,011
Total shrimp.....	29,401	32,689	34,940	38,997	42,605	43,877
Squid.....	8,376	5,011	6,244	8,194	11,693	17,902
Other shellfish.....	7,233	4,100	4,378	4,782	5,727	4,131
Bait and animal food.....	15,075	15,013	13,847	11,042	11,963	13,450
Cured fish.....	666	1143	1250	1112	1249	795
Total fish and shellfish.....	333,828	331,871	346,457	361,481	364,423	369,420

Note:--Holdings of frozen fishery products include domestic and imported fish and shellfish.

Source:--Frozen Fishery Products - Annual Summary, 1996, Current Fishery Statistics No. 9601 will provide additional information.

FOREIGN TRADE

IMPORTS

**U.S. IMPORTS OF EDIBLE FISHERY PRODUCTS, 1996
FROM MAJOR MARKETS****U.S. IMPORTS OF EDIBLE FISHERY PRODUCTS, 1996
BY MAJOR GROUP**

IMPORTS

FISHERY PRODUCTS IMPORTS, BY PRINCIPAL ITEMS, 1995 AND 1996

Item	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Edible fishery products:						
Fresh and frozen:						
Whole or eviscerated:						
Freshwater.....	58,332	26,459	61,804	64,923	29,449	68,072
Flatfish.....	31,817	14,432	58,081	31,371	14,230	56,929
Groundfish.....	55,091	24,989	45,310	59,760	27,107	47,080
Salmon.....	126,123	57,209	280,781	142,258	64,528	304,612
Tuna (1).....	495,876	224,928	457,493	528,703	239,818	509,783
Other.....	240,242	108,973	272,829	228,211	103,516	274,515
Fillets and steaks:						
Freshwater.....	26,080	11,830	68,536	26,133	11,854	74,688
Flatfish.....	47,134	21,380	112,922	45,091	20,453	96,092
Groundfish.....	184,845	83,845	323,836	178,209	80,835	310,417
Other.....	219,424	99,530	446,318	227,036	102,983	448,706
Blocks and slabs.....	210,275	95,380	213,566	234,210	106,237	213,323
Surimi.....	11,023	5,000	8,361	29,312	13,296	15,956
Shrimp.....	590,634	267,910	2,564,830	578,908	262,591	2,448,468
Crabmeat.....	12,363	5,608	64,294	11,272	5,113	50,043
Lobster:						
American.....	37,095	16,826	210,442	37,948	17,213	220,988
Spiny.....	28,785	13,057	281,227	25,082	11,377	224,872
Scallops (meats).....	48,331	21,923	174,103	58,686	26,620	197,855
Other fish and shellfish..	174,025	78,937	427,668	219,702	99,656	481,321
Total, fresh and frozen.	2,597,495	1,178,216	6,072,401	2,726,817	1,236,876	6,043,720
Canned:						
Anchovy.....	6,371	2,890	21,403	7,050	3,198	23,197
Herring.....	1,656	751	2,306	1,563	709	2,458
Mackerel.....	20,086	9,111	9,664	20,274	9,196	10,758
Salmon.....	1,202	545	5,627	2,266	1,028	6,219
Sardines.....	42,280	19,178	48,923	40,926	18,564	46,532
Tuna.....	215,365	97,689	233,505	193,037	87,561	215,892
Clams.....	9,938	4,508	11,570	11,054	5,014	12,410
Crabmeat.....	12,441	5,643	49,226	12,773	5,794	48,719
Lobsters.....	1,096	497	10,347	798	362	7,271
Oysters.....	10,602	4,809	30,964	10,198	4,626	28,753
Shrimp.....	6,570	2,980	16,061	3,563	1,616	9,032
Balls, cakes, and puddings	7,881	3,575	14,208	8,344	3,785	13,948
Other fish and shellfish..	42,935	19,475	49,590	42,602	19,324	48,517
Total, canned.	378,422	171,651	503,394	354,449	160,777	473,706
Cured:						
Dried.....	22,906	10,390	64,043	22,064	10,008	60,201
Pickled or salted.....	38,552	17,487	46,794	36,971	16,770	47,057
Smoked or kippered.....	9,467	4,294	24,948	8,382	3,802	24,462
Total, cured.	70,924	32,171	135,785	67,417	30,580	131,720
Caviar and roe.....	4,727	2,144	33,709	5,088	2,308	35,305
Prepared meals.....	2,923	1,326	8,384	2,661	1,207	8,252
Other fish and shellfish..	11,967	5,428	38,017	13,355	6,058	36,911
Total edible fishery products.	3,066,458	1,390,936	6,791,690	3,169,787	1,437,806	6,729,614
Nonedible fishery products:						
Meal and scrap.....	139,101	63,096	24,658	135,561	61,490	33,981
Fish oils.....	23,913	10,847	13,795	35,622	16,158	18,967
Other.....	-	-	5,621,480	-	-	6,277,793
Total nonedible fishery products.	-	-	5,659,933	-	-	6,330,741
Grand total.	-	-	12,451,623	-	-	13,060,355

(1) Includes loins and discs.

Note:--Data include imports into the United States and Puerto Rico and landings of tuna by foreign vessels at American Samoa. Statistics on imports are the weight of individual products as exported, i.e., fillets, steaks, whole, headed, etc.

Imports and Exports of Fishery Products, Annual Summary, 1996, Current Fishery Statistics
No. 9602 provides additional information.

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1987-96

Year	Edible		Nonedible		Total
	Thousand pounds	Metric tons	-----Thousand dollars-----		
1987.....	3,201,099	1,452,009	5,711,233	3,106,464	8,817,697
1988.....	2,967,755	1,346,165	5,441,628	3,430,369	8,871,997
1989.....	3,243,022	1,471,025	5,497,849	4,106,507	9,604,356
1990.....	2,884,596	1,308,444	5,233,167	3,814,513	9,047,680
1991.....	3,014,819	1,367,513	5,671,887	3,763,173	9,435,060
1992.....	2,893,954	1,312,689	5,705,876	4,165,386	9,871,262
1993.....	2,917,160	1,323,215	5,848,738	4,773,649	10,622,387
1994.....	3,034,841	1,376,595	6,645,132	5,341,740	11,986,872
1995.....	3,066,458	1,390,936	6,791,690	5,659,933	12,451,623
1996.....	3,169,787	1,437,806	6,729,614	6,330,741	13,060,355

Source:--U.S. Department of Commerce, Bureau of the Census.



FISHERY PRODUCTS IMPORTS: VALUE, DUTIES COLLECTED, AND AD VALOREM EQUIVALENT, 1987-96

Year	Value		Duties collected		Average ad valorem equivalent	
	Fishery imports	All imports	Fishery imports	All imports	Fishery imports	All imports
	- - - - -Thousand dollars- - - - -				- - - - -Percent- - - - -	
1987.....	8,817,697	402,066,002	178,861	13,922,567	2.0	3.5
1988.....	8,871,997	437,140,185	206,470	15,054,304	2.3	3.4
1989.....	9,604,356	472,976,600	235,851	16,096,400	2.5	3.4
1990.....	9,047,680	490,553,800	213,710	16,338,700	2.4	3.3
1991.....	9,435,060	483,027,900	204,694	16,197,300	2.2	3.4
1992.....	9,871,262	525,091,414	206,480	17,164,481	2.1	3.3
1993.....	10,622,387	486,386,000	215,885	18,333,800	2.0	3.8
1994.....	11,986,872	657,884,700	242,977	19,846,400	2.0	3.0
1995.....	12,451,623	739,660,200	221,270	18,596,800	1.8	2.5
1996.....	13,060,355	790,469,700	219,114	18,005,300	1.7	2.3

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

99

IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1996

Continent and Country	Edible		Nonedible		Total
	Thousand pounds	Metric tons	-----Thousand dollars-----		
North America:					
Canada.....	524,532	237,926	1,153,499	711,052	1,864,551
Mexico.....	143,830	65,241	449,720	176,673	626,393
Costa Rica.....	19,837	8,998	56,899	46,813	103,712
Honduras.....	27,926	12,667	103,216	26	103,242
Dominican Republic.....	194	88	388	99,931	100,319
Other.....	122,128	55,397	347,972	32,316	380,288
Total.....	838,447	380,317	2,111,694	1,066,811	3,178,505
South America:					
Ecuador.....	197,354	89,519	499,460	7,860	507,320
Chile.....	146,546	66,473	283,312	21,955	305,267
Brazil.....	15,267	6,925	59,980	42,618	102,598
Argentina.....	69,489	31,520	75,017	14,354	89,371
Peru.....	22,976	10,422	38,888	35,179	74,067
Other.....	74,344	33,722	156,018	63,611	219,629
Total.....	525,976	238,581	1,112,675	185,577	1,298,252
Europe:					
European Union:					
Italy.....	778	353	2,705	1,320,593	1,323,298
France.....	31,923	14,480	19,420	499,218	518,638
Germany.....	1,217	552	2,419	295,177	297,596
United Kingdom.....	11,876	5,387	23,226	125,504	148,730
Spain.....	23,567	10,690	29,299	56,666	85,965
Other.....	31,751	14,402	56,500	189,880	246,380
Total.....	101,112	45,864	133,569	2,487,038	2,620,607
Other:					
Iceland.....	89,844	40,753	180,379	5,073	185,452
Russia.....	131,886	59,823	178,208	3,961	182,169
Norway.....	58,404	26,492	108,771	20,218	128,989
Switzerland.....	2	1	5	97,570	97,575
Turkey.....	454	206	1,268	61,032	62,300
Other.....	6,510	2,953	12,287	50,322	62,609
Total.....	287,101	130,228	480,918	238,176	719,094
Asia:					
Thailand.....	344,101	156,083	1,113,387	385,352	1,498,739
Japan.....	67,018	30,399	145,094	448,803	593,897
India.....	65,840	29,865	144,938	298,699	443,637
China.....	224,651	101,901	285,256	141,567	426,823
Hong Kong.....	8,459	3,837	12,044	409,389	421,433
Other.....	537,867	243,975	888,873	554,400	1,443,273
Total.....	1,247,936	566,060	2,589,592	2,238,210	4,827,802
Oceania:					
New Zealand.....	83,422	37,840	165,437	6,013	171,450
Australia.....	4,266	1,935	33,305	48,184	81,489
French Polynesia.....	280	127	369	15,277	15,646
Fiji.....	5,104	2,315	7,406	1,293	8,699
Western Samoa.....	2,617	1,187	2,838	4	2,842
Other.....	9,270	4,205	7,838	2,655	10,493
Total.....	104,959	47,609	217,193	73,426	290,619
Africa:					
South Africa.....	18,920	8,582	27,174	22,260	49,434
Morocco.....	6,541	2,967	17,193	6,197	23,390
Namibia.....	4,493	2,038	11,384	22	11,406
Mauritius.....	8,990	4,078	10,222	322	10,544
Ghana.....	18,728	8,495	9,904	329	10,233
Other.....	6,585	2,987	8,096	12,373	20,469
Total.....	64,257	29,147	83,973	41,503	125,476
Grand total.....	3,169,787	1,437,806	6,729,614	6,330,741	13,060,355

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

IMPORTS

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS,
BY SPECIES AND TYPE, 1995 AND 1996

Species and type	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Regular blocks and slabs:						
Cod.....	35,540	16,121	60,064	23,439	10,632	33,755
Flatfish.....	5,732	2,600	10,589	3,433	1,557	6,461
Haddock.....	12,802	5,807	19,549	12,740	5,779	18,122
Ocean Perch.....	1,023	464	1,465	1,111	504	1,872
Pollock.....	102,029	46,280	71,443	144,234	65,424	109,985
Whiting.....	27,042	12,266	24,354	16,830	7,634	14,310
Other.....	4,949	2,245	6,773	6,903	3,131	6,450
Total.....	189,117	85,783	194,237	208,690	94,661	190,955
Minced blocks and slabs.....	21,158	9,597	19,329	25,520	11,576	22,368
Grand total.....	210,275	95,380	213,566	234,210	106,237	213,323

Source:--U.S. Department of Commerce, Bureau of the Census.

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS,
BY COUNTRY OF ORIGIN, 1995 AND 1996

Country	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Russia.....	42,458	19,259	35,251	74,848	33,951	61,670
China.....	67,556	30,643	46,310	81,120	36,796	59,366
Iceland.....	17,379	7,883	27,041	16,380	7,430	22,859
Norway.....	16,660	7,557	27,842	12,335	5,595	17,485
Canada.....	12,884	5,844	13,706	15,227	6,907	15,454
Denmark.....	9,627	4,367	17,207	5,333	2,419	8,296
Argentina.....	8,618	3,909	6,718	9,257	4,199	6,890
South Africa.....	5,670	2,572	8,053	3,084	1,399	4,274
Peru.....	2,736	1,241	1,981	5,622	2,550	3,726
Other.....	26,687	12,105	29,457	11,003	4,991	13,303
Total.....	210,275	95,380	213,566	234,210	106,237	213,323

Source:--U.S. Department of Commerce, Bureau of the Census.

GROUND FISH FILLET AND STEAK IMPORTS, BY SPECIES, 1995 AND 1996 (1)

Species	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Cod.....	75,869	34,414	166,437	74,191	33,653	163,986
Haddock (2).....	73,883	33,513	100,589	79,031	35,848	102,752
Ocean Perch.....	35,093	15,918	56,810	24,987	11,334	43,679
Total.....	184,845	83,845	323,836	178,209	80,835	310,417

(1) Does not include data on fish blocks and slabs.

(2) Includes some quantities of cusk, hake, and pollock fillets.

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

CANNED TUNA NOT IN OIL, QUOTA AND IMPORTS, 1987-96

Year	Quota (1)		Over quota (2)		Total	
	Thousand pounds	Metric tons	Thousand pounds	Metric tons	Thousand pounds	Metric tons
1987.....	91,539	41,522	123,365	55,958	214,904	97,480
1988.....	85,186	38,640	193,784	87,900	278,970	126,540
1989.....	76,733	34,806	234,323	106,288	311,056	141,094
1990.....	87,157	39,534	171,472	77,779	258,628	117,313
1991.....	75,093	34,062	237,237	107,610	312,330	141,672
1992.....	73,724	33,441	259,739	117,817	333,463	151,258
1993.....	72,681	32,968	144,287	65,448	216,968	98,416
1994.....	73,294	33,246	168,224	76,306	241,518	109,552
1995.....	73,367	33,279	126,176	57,233	199,543	90,512
1996.....	80,027	36,300	117,205	53,164	197,232	89,464

(1) Imports have been subject to tariff quotas since April 14, 1956, and are based on 20 percent of the previous year's domestic pack, excluding the pack in American Samoa. Dutiable in 1956 to 1967 at 12.5 percent ad valorem; 1968, 11 percent; 1969, 10 percent; 1970, 8.5 percent; 1971, 7 percent; and 1972 to 1996, 6 percent.

(2) Dutiable in 1972 to 1996, 12.5 percent.

Note:--Data in this table will not agree with tuna import data released by the U.S. Department of Commerce, Bureau of the Census. Any tuna entered for consumption or withdrawn from a warehouse for consumption during the calendar year, except for receipts from insular possessions of the U.S., is subject to this quota.

Source:--U.S. Department of the Treasury, U.S. Customs Service.

CANNED TUNA, BY COUNTRY OF ORIGIN, 1995 AND 1996

Country	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Thailand.....	122,734	55,672	136,589	95,869	43,486	113,345
Philippines.....	56,380	25,574	51,126	64,639	29,320	60,569
Indonesia.....	31,389	14,238	38,028	28,168	12,777	35,150
Malaysia.....	2,227	1,010	4,245	2,079	943	3,753
Ecuador.....	827	375	738	906	411	852
Spain.....	207	94	555	247	112	675
Singapore.....	273	124	348	212	96	374
South Korea.....	115	52	213	203	92	359
Mexico.....	0	-	-	375	170	277
Other.....	1,213	550	1,663	340	154	538
Total.....	215,365	97,689	233,505	193,037	87,561	215,892

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

IMPORTS

SHRIMP IMPORTS, BY COUNTRY OF ORIGIN, 1995 AND 1996

Country	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
North America:						
Mexico.....	72,974	33,101	342,874	67,873	30,787	327,720
Honduras.....	18,616	8,444	66,607	19,559	8,872	69,564
Panama.....	18,922	8,583	77,490	19,092	8,660	68,574
El Salvador.....	8,256	3,745	27,706	12,079	5,479	38,624
Guatemala.....	5,977	2,711	18,467	9,178	4,163	29,595
Canada.....	16,323	7,404	26,208	19,744	8,956	26,611
Nicaragua.....	7,908	3,587	29,705	7,432	3,371	25,298
Costa Rica.....	2,773	1,258	12,740	3,364	1,526	15,511
Belize.....	1,321	599	5,875	1,105	501	4,292
Greenland.....	487	221	1,533	939	426	2,503
Other.....	531	241	1,966	64	29	246
Total.....	154,088	69,894	611,171	160,429	72,770	608,538
South America:						
Ecuador.....	114,106	51,758	443,478	97,194	44,087	369,817
Venezuela.....	10,631	4,822	41,520	15,119	6,858	47,862
Colombia.....	6,861	3,112	24,842	6,695	3,037	26,506
Guyana.....	7,238	3,283	18,099	8,814	3,998	22,220
Peru.....	5,997	2,720	24,426	4,469	2,027	18,196
Brazil.....	4,162	1,888	15,768	1,997	906	6,528
Chile.....	562	255	2,003	664	301	2,353
Uruguay.....	146	66	176	-	-	-
Total.....	149,701	67,904	570,312	134,952	61,214	493,482
Europe:						
European Union:						
Denmark.....	139	63	502	787	357	2,112
Belgium.....	342	155	1,327	278	126	905
United Kingdom.....	732	332	3,184	256	116	567
Netherlands.....	57	26	374	22	10	48
Portugal.....	9	4	17	13	6	23
Other.....	86	39	289	9	4	30
Total.....	1,365	619	5,693	1,365	619	3,685
Other:						
Iceland.....	119	54	550	494	224	1,636
Norway.....	130	59	552	291	132	1,032
Other.....	15	7	10	2	1	20
Total.....	265	120	1,112	787	357	2,688
Asia:						
Thailand.....	171,509	77,796	981,088	160,310	72,716	888,410
India.....	39,077	17,725	109,957	41,773	18,948	118,590
Indonesia.....	11,775	5,341	58,568	21,792	9,885	110,711
Bangladesh.....	10,917	4,952	65,700	20,357	9,234	109,623
China.....	32,284	14,644	79,515	17,077	7,746	35,407
Viet Nam.....	2,877	1,305	16,622	5,686	2,579	28,226
Pakistan.....	4,980	2,259	13,014	5,355	2,429	14,089
Philippines.....	4,581	2,078	21,727	2,676	1,214	12,332
Singapore.....	3,724	1,689	14,984	1,958	888	5,976
Malaysia.....	2,690	1,220	8,907	1,814	823	5,632
Other.....	5,624	2,551	19,614	5,567	2,525	19,032
Total.....	290,037	131,560	1,389,696	284,365	128,987	1,348,028
Oceania.....	53	24	362	60	27	435
Africa.....	1,695	769	2,545	514	233	644
Grand total.....	597,204	270,890	2,580,891	582,471	264,207	2,457,500

Note:--Statistics on imports are the weights of the individual products as exported, i.e., raw headless, peeled, etc.

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

SHRIMP IMPORTS, BY TYPE OF PRODUCT, 1995 AND 1996

Type of product	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Shell-on (heads off)....	327,295	148,460	1,482,667	318,000	144,244	1,393,216
Peeled:						
Canned.....	6,570	2,980	16,061	3,563	1,616	9,032
Not breaded:						
Raw.....	226,684	102,823	876,832	206,670	93,745	763,008
Other.....	35,234	15,982	198,667	53,766	24,388	289,809
Breaded.....	1,422	645	6,664	472	214	2,435
Total.....	597,204	270,890	2,580,891	582,471	264,207	2,457,500

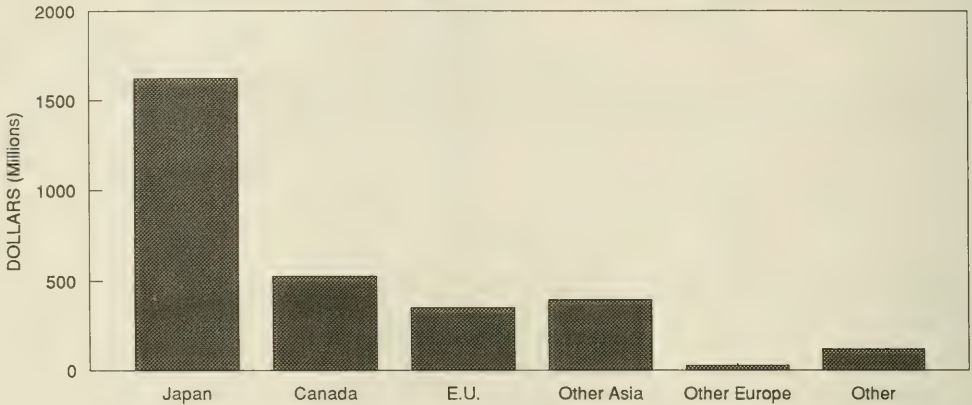
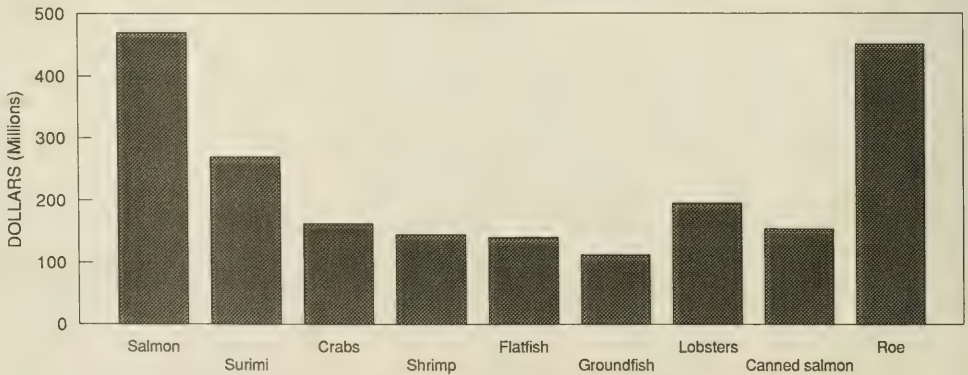
Source:--U.S. Department of Commerce, Bureau of the Census.



FISH MEAL AND SCRAP IMPORTS, BY COUNTRY OF ORIGIN, 1995 AND 1996

Country	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Mexico.....	18,666	8,467	3,673	38,197	17,326	8,968
Chile.....	24,886	11,288	3,764	30,554	13,859	7,076
Denmark.....	9,266	4,203	2,477	13,252	6,011	4,335
Canada.....	23,212	10,529	6,613	13,419	6,087	4,281
Peru.....	23,763	10,779	3,845	16,883	7,658	3,633
Iceland.....	3,300	1,497	737	11,243	5,100	3,302
Panama.....	35,847	16,260	3,449	11,155	5,060	1,965
Germany.....	-	-	-	439	199	141
Ukraine.....	-	-	-	152	69	102
Other.....	161	73	100	267	121	178
Total.....	139,101	63,096	24,658	135,561	61,490	33,981

Source:--U.S. Department of Commerce, Bureau of the Census.

**U.S. EXPORTS OF EDIBLE FISHERY PRODUCTS, 1996
TO MAJOR MARKETS****U.S. EXPORTS OF EDIBLE FISHERY PRODUCTS, 1996
BY MAJOR GROUP**

FOREIGN TRADE

105

EXPORTS

FISHERY PRODUCTS EXPORTS, BY PRINCIPAL ITEMS, 1995 AND 1996 (1)

Item	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Edible fishery products:						
Fresh and frozen:						
Whole or eviscerated:						
Freshwater.....	4,650	2,109	6,116	4,749	2,154	6,742
Flatfish.....	198,489	90,034	160,909	179,161	81,267	140,753
Groundfish.....	119,983	54,424	119,043	139,840	63,431	112,375
Herring.....	94,974	43,080	69,658	79,866	36,227	53,131
Sablefish.....	38,241	17,346	101,000	37,716	17,108	93,756
Salmon.....	332,165	150,669	553,751	276,973	125,634	469,812
Tuna.....	28,869	13,095	44,098	31,382	14,235	38,278
Other.....	247,001	112,039	226,030	299,058	135,652	245,564
Filletts, and steaks:						
Freshwater.....	304	138	1,003	710	322	2,206
Groundfish.....	24,606	11,161	31,534	41,691	18,911	44,399
Other.....	25,875	11,737	46,306	31,967	14,500	52,887
Blocks and slabs.....	36,689	16,642	37,729	64,229	29,134	60,481
Surimi.....	298,540	135,417	353,496	284,702	129,140	269,754
Fish sticks.....	30,223	13,709	42,479	21,729	9,856	29,555
Clams.....	2,176	987	3,679	2,661	1,207	4,594
Crabs.....	46,879	21,264	204,710	46,742	21,202	162,403
Crabmeat.....	1,523	691	4,841	3,106	1,409	6,094
Lobsters.....	36,967	16,768	176,920	41,398	18,778	195,261
Scallops (meats).....	5,926	2,688	19,242	6,191	2,808	22,318
Sea urchins.....	6,365	2,887	13,473	5,622	2,550	12,998
Shrimp.....	39,202	17,782	156,681	38,638	17,526	145,064
Squid.....	120,316	54,575	66,561	137,042	62,162	69,419
Other fish and shellfish	28,342	10,747	48,964	28,342	10,702	56,654
Total, fresh and frozen	1,763,656	799,989	2,488,223	1,798,766	815,915	2,294,498
Canned:						
Salmon.....	98,197	44,542	175,392	95,530	43,332	154,093
Sardines.....	11,773	5,340	8,915	12,207	5,627	9,623
Tuna.....	7,385	3,350	10,957	9,866	4,475	14,937
Abalone.....	880	399	7,026	805	365	5,427
Crabmeat.....	276	125	741	337	153	1,358
Shrimp.....	3,250	1,474	17,048	2,665	1,209	11,581
Squid.....	6,382	2,895	3,366	7,608	3,451	4,404
Other fish and shellfish	14,233	6,456	13,158	26,389	11,970	22,393
Total, canned.....	142,375	64,581	236,603	155,407	70,492	223,816
Cured:						
Dried.....	6,120	2,776	15,198	9,431	4,278	19,653
Pickled or salted.....	6,629	3,007	8,368	12,665	5,745	19,090
Smoked or kippered.....	492	223	2,375	1,096	497	3,150
Total, cured.....	13,241	6,006	25,941	23,192	10,520	41,893
Caviar and roe:						
Herring.....	28,428	12,895	38,406	34,806	15,788	51,638
Pollack.....	33,274	15,093	144,343	29,284	13,283	154,633
Salmon.....	25,082	11,377	128,882	27,952	12,679	97,775
Sea Urchin.....	8,527	3,868	130,264	7,167	3,251	107,384
Other.....	12,513	5,676	53,800	11,680	5,298	39,467
Total, caviar and roe..	107,825	48,909	495,695	110,889	50,299	450,897
Prepared meals.....	4,429	2,009	5,896	1,975	896	2,848
Other fish and shellfish.	15,655	7,101	9,884	21,826	9,900	18,330
Total edible fishery products.....	2,047,181	928,595	3,262,242	2,112,055	958,022	3,032,282
Nonedible fishery products:						
Meal and scrap.....	176,981	80,278	41,331	186,412	84,556	52,931
Fish oils.....	260,394	118,114	44,214	187,294	84,956	36,423
Other.....	-	-	4,964,547	-	-	5,568,238
Total nonedible fishery products.....	-	-	5,005,878	-	-	5,621,169
Grand total.....	-	-	8,268,120	-	-	8,653,451

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

EXPORTS

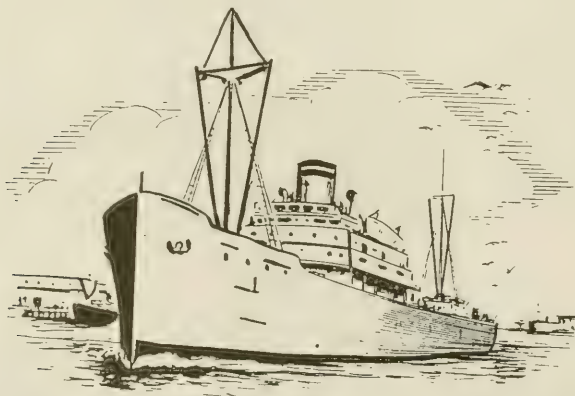
FISHERY PRODUCTS EXPORTS, 1987-96 (1)

FISH AND FISH PRODUCTS EXPORTS, 1987-96 (x)					
Year	Edible		Nonedible		Total
	Thousand pounds	Metric tons	-----Thousand dollars-----		
1987.....	806,116	365,652	1,625,385	96,725	1,722,110
1988.....	1,085,935	492,577	2,213,326	125,061	2,338,387
1989.....	1,405,977	637,747	2,355,603	2,582,538	4,938,141
1990.....	1,947,292	883,286	2,881,262	3,084,677	5,965,939
1991.....	2,058,594	933,772	3,155,771	3,386,037	6,541,808
1992.....	2,087,606	946,932	3,465,667	3,653,965	7,119,632
1993.....	1,986,027	900,856	3,076,813	3,847,911	6,924,724
1994.....	1,978,507	897,445	3,126,120	4,254,741	7,380,861
1995.....	2,047,181	928,595	3,262,242	5,005,878	8,268,120
1996.....	2,112,055	958,022	3,032,282	5,621,169	8,653,451

(1) Figures reflect both domestic and foreign (re-exports).

NOTE:--The increase in the nonedible value beginning in 1989 is due to re-examination of commodities that are considered to be based on fishery products including fish, shellfish, aquatic plants and animals and any products thereof, including processed and manufactured products.

Source:--U.S. Department of Commerce, Bureau of the Census.



FOREIGN TRADE

107

EXPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS EXPORTS, 1996 (1)

Continent and Country	Edible			Nonedible	Total
	Thousand pounds	Metric tons	-----Thousand dollars-----		
North America:					
Canada.....	323,869	146,906	526,885	1,191,546	1,718,431
Mexico.....	19,683	8,928	38,954	343,312	382,266
Panama.....	1,669	757	2,186	44,875	47,061
Dominican Republic..	3,139	1,424	3,506	32,821	36,327
Netherlands Antilles	930	422	1,771	33,171	34,942
Other.....	17,773	8,062	24,578	139,600	164,178
Total.....	367,064	166,499	597,880	1,785,325	2,383,205
South America:					
Brazil.....	924	419	1,490	139,930	141,420
Argentina.....	465	211	398	55,775	56,173
Colombia.....	3,362	1,525	2,082	45,253	47,335
Chile.....	628	285	864	44,790	45,654
Venezuela.....	2,941	1,334	1,597	37,261	38,858
Other.....	4,050	1,837	4,673	80,928	85,601
Total.....	12,370	5,611	11,104	403,937	415,041
Europe:					
European Union:					
United Kingdom....	55,036	24,964	89,368	245,817	335,185
France.....	50,386	22,855	80,547	144,419	224,966
Germany.....	16,385	7,432	26,061	170,444	196,505
Netherlands.....	13,554	6,148	23,296	147,975	171,271
Belgium.....	10,408	4,721	16,671	119,461	136,132
Other.....	84,734	38,435	111,160	218,843	330,003
Total.....	230,502	104,555	347,103	1,046,959	1,394,062
Other:					
Switzerland.....	992	450	2,737	325,994	328,731
Russia.....	13,393	6,075	5,458	23,115	28,573
Norway.....	8,909	4,041	10,504	14,005	24,509
Poland.....	333	151	342	9,318	9,660
Turkey.....	657	298	563	5,596	6,159
Other.....	9,458	4,290	6,621	21,387	28,008
Total.....	33,741	15,305	26,225	399,415	425,640
Asia:					
Japan.....	1,005,040	455,883	1,623,322	627,032	2,250,354
South Korea.....	186,095	84,412	146,049	208,615	354,664
Hong Kong.....	26,164	11,868	50,342	301,955	352,297
Taiwan.....	23,016	10,440	65,075	131,673	196,748
Singapore.....	4,458	2,022	5,468	133,940	139,408
Other.....	174,611	79,203	126,271	416,966	543,237
Total.....	1,419,383	643,828	2,016,527	1,820,181	3,836,708
Oceania:					
Australia.....	31,005	14,064	24,980	97,000	121,980
New Zealand.....	1,468	666	1,461	18,164	19,625
French Polynesia....	489	222	607	1,236	1,843
Fiji.....	1,475	669	774	319	1,093
Fed States of Micron	-	-	-	741	741
Other.....	725	329	692	954	1,646
Total.....	35,163	15,950	28,514	118,414	146,928
Africa:					
South Africa.....	2,745	1,245	2,106	32,767	34,873
Egypt.....	6,316	2,865	1,479	4,788	6,267
Nigeria.....	4,026	1,826	550	2,385	2,935
Mauritius.....	254	115	83	1,342	1,425
Zimbabwe.....	-	-	-	1,348	1,348
Other.....	492	223	711	4,308	5,019
Total.....	13,832	6,274	4,929	46,938	51,867
Grand total...	2,112,055	958,022	3,032,282	5,621,169	8,653,451

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

EXPORTS

FRESH AND FROZEN SHRIMP EXPORTS,
BY COUNTRY OF DESTINATION, 1995 AND 1996 (1)

Country	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Canada.....	19,553	8,869	84,428	19,015	8,625	74,828
Mexico.....	7,577	3,437	25,238	7,211	3,271	24,123
Japan.....	2,456	1,114	12,149	2,284	1,036	11,286
Thailand.....	679	308	2,640	1,687	765	6,086
China.....	2,480	1,125	7,435	1,975	896	5,071
Honduras.....	520	236	2,566	904	410	3,869
Norway.....	1,155	524	4,597	820	372	3,567
Hong Kong.....	269	122	900	941	427	2,337
South Korea.....	439	199	2,012	500	227	2,027
Other.....	4,074	1,848	14,716	3,300	1,497	11,870
Total.....	39,202	17,782	156,681	38,638	17,526	145,064

(1) Figures reflect both domestic and foreign (re-export).
Source:--U.S. Department of Commerce, Bureau of the Census.

CANNED SHRIMP EXPORTS,
BY COUNTRY OF DESTINATION, 1995 AND 1996 (1)

Country	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Canada.....	937	425	4,586	963	437	4,739
Thailand.....	606	275	4,379	437	198	2,281
Ecuador.....	238	108	1,527	207	94	1,315
Belgium.....	99	45	617	132	60	818
South Korea.....	181	82	1,231	84	38	520
Greece.....	470	213	394	538	244	427
Indonesia.....	126	57	670	57	26	348
Philippines.....	40	18	248	51	23	283
Hong Kong.....	18	8	84	37	17	224
Other.....	536	243	3,312	159	72	626
Total.....	3,250	1,474	17,048	2,665	1,209	11,581

(1) Figures reflect both domestic and foreign (re-export).
Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

FRESH AND FROZEN SALMON EXPORTS, WHOLE OR EVISCERATED,
BY COUNTRY OF DESTINATION, 1995 AND 1996 (1)

Country	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan.....	213,637	96,905	421,094	176,441	80,033	344,756
Canada.....	69,566	31,555	71,277	55,565	25,204	73,794
France.....	16,601	7,530	20,139	11,180	5,071	11,068
Denmark.....	4,577	2,076	5,000	5,337	2,421	5,973
Taiwan.....	2,176	987	5,291	2,901	1,316	5,333
Belgium.....	3,880	1,760	4,680	4,559	2,068	5,288
China.....	3,205	1,454	4,297	2,156	978	3,182
Sweden.....	3,342	1,516	3,306	3,627	1,645	3,084
United Kingdom.....	2,705	1,227	2,842	2,341	1,062	2,460
Other.....	12,476	5,659	15,825	12,866	5,836	14,874
Total.....	332,165	150,669	553,751	276,973	125,634	469,812

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.



CANNED SALMON EXPORTS, BY COUNTRY OF DESTINATION, 1995 AND 1996 (1)

Country	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
United Kingdom.....	44,881	20,358	86,688	40,809	18,511	73,252
Canada.....	31,299	14,197	52,843	29,297	13,289	42,845
Australia.....	8,869	4,023	15,468	12,225	5,545	18,103
Netherlands.....	7,518	3,410	11,764	6,329	2,871	10,148
Belgium.....	2,132	967	3,033	1,270	576	1,826
France.....	243	110	323	611	277	1,085
Ireland.....	741	336	1,229	650	295	966
Sweden.....	-	-	-	520	236	900
New Zealand.....	688	312	1,131	672	305	881
Other.....	1,828	829	2,913	3,146	1,427	4,087
Total.....	98,197	44,542	175,392	95,530	43,332	154,093

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

EXPORTS

FRESH AND FROZEN CRAB EXPORTS,
BY COUNTRY OF DESTINATION, 1995 AND 1996 (1)

Country	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan.....	38,706	17,557	184,172	35,044	15,896	137,529
Canada.....	6,186	2,806	12,672	8,702	3,947	15,535
China.....	1,206	547	4,865	1,962	890	5,849
Thailand.....	148	67	736	216	98	951
United Kingdom.....	68	31	333	104	47	528
South Korea.....	121	55	415	86	39	316
Hong Kong.....	90	41	467	51	23	284
Mexico.....	24	11	81	79	36	244
France.....	40	18	110	108	49	201
Other.....	289	131	859	390	177	966
Total.....	46,879	21,264	204,710	46,742	21,202	162,403

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

FRESH AND FROZEN CRABMEAT EXPORTS,
BY COUNTRY OF DESTINATION, 1995 AND 1996 (1)

Country	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan.....	494	224	2,370	853	387	2,636
Russia.....	2	1	15	547	248	499
Canada.....	106	48	377	126	57	397
South Korea.....	26	12	59	198	90	331
Thailand.....	115	52	189	243	110	299
Hong Kong.....	148	67	340	236	107	245
Netherlands Antilles.....	46	21	82	86	39	212
Netherlands.....	-	-	-	95	43	176
China.....	-	-	-	97	44	130
Other.....	586	266	1,409	626	284	1,169
Total.....	1,523	691	4,841	3,106	1,409	6,094

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

FRESH AND FROZEN HERRING EXPORTS, WHOLE OR EVISCERATED
BY COUNTRY OF DESTINATION, 1995 AND 1996 (1)

Country	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan.....	54,952	24,926	52,786	30,516	13,842	30,365
Canada.....	8,874	4,025	5,087	20,759	9,416	13,630
China.....	23,576	10,694	10,734	6,065	2,751	5,642
Egypt.....	-	-	-	5,897	2,675	1,178
Russia.....	1,724	782	443	8,984	4,075	730
South Korea.....	302	137	229	855	388	547
Nigeria.....	5,190	2,354	224	3,993	1,811	478
Other.....	357	162	155	2,798	1,269	561
Total.....	94,974	43,080	69,658	79,866	36,227	53,131

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

111

EXPORTS

FISH AND MARINE ANIMAL OIL EXPORTS, BY COUNTRY OF DESTINATION, 1995 AND 1996 (1)

Country	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Netherlands.....	176,461	80,042	27,612	99,416	45,095	16,248
Canada.....	41,579	18,860	8,661	55,904	25,358	13,013
Mexico.....	3,305	1,499	725	14,888	6,753	3,229
South Korea.....	4,123	1,870	1,151	8,719	3,955	1,905
Japan.....	20,201	9,163	3,280	3,673	1,666	657
China.....	31	14	295	1,003	455	631
Spain.....	5,950	2,699	801	2,864	1,299	395
Taiwan.....	126	57	37	381	173	102
Hong Kong.....	2,222	1,008	475	51	23	91
Other.....	6,398	2,902	1,177	395	179	152
Total.....	260,394	118,114	44,214	187,294	84,956	36,423

(1) Figures reflect both domestic and foreign (re-exports).
Source:--U.S. Department of Commerce, Bureau of the Census.



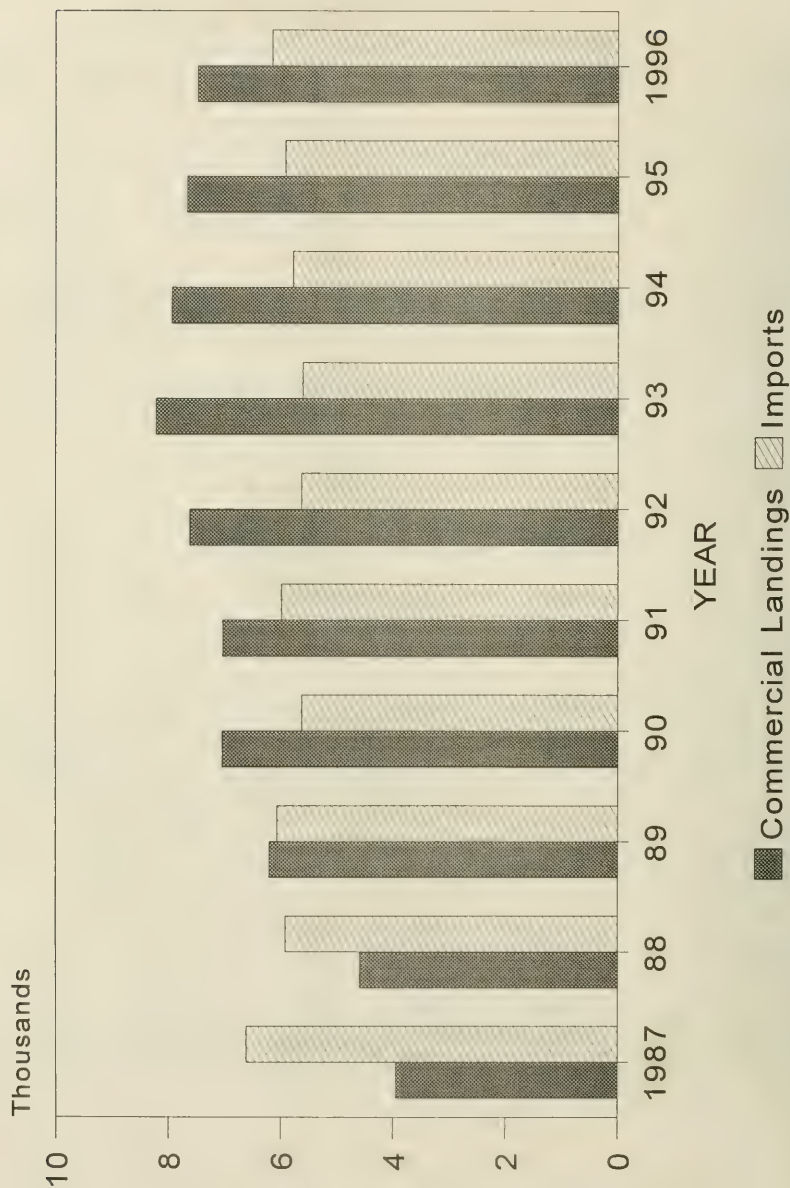
FISH MEAL EXPORTS, BY COUNTRY OF DESTINATION, 1995 AND 1996 (1)

Country	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Taiwan.....	53,358	24,203	12,168	49,456	22,433	13,882
China.....	22,324	10,126	5,563	24,486	11,107	7,653
Canada.....	30,818	13,979	6,961	31,274	14,186	7,224
Japan.....	21,874	9,922	4,944	20,719	9,398	5,683
Philippines.....	21,744	9,863	3,505	19,868	9,012	4,567
Italy.....	35	16	22	11,409	5,175	2,812
Thailand.....	1,563	709	1,203	1,164	528	2,651
Hong Kong.....	7,156	3,246	1,695	6,261	2,840	1,688
Germany.....	7	3	44	7,145	3,241	1,419
Other.....	18,102	8,211	5,226	14,630	6,636	5,352
Total.....	176,981	80,278	41,331	186,412	84,556	52,931

(1) Figures reflect both domestic and foreign (re-exports).
Source:--U.S. Department of Commerce, Bureau of the Census.

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF EDIBLE FISHERY PRODUCTS
(ROUND WEIGHT)
1987 - 1996



SUPPLY OF FISHERY PRODUCTS

113

U.S. SUPPLY OF EDIBLE AND INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1987-96 (Round weight)

Year	Domestic commercial landings (1)		Imports (2)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1987.....	6,896	43.8	8,848	56.2	15,744
1988.....	7,192	49.2	7,436	50.8	14,628
1989.....	8,463	54.7	7,022	45.3	15,485
1990.....	9,404	57.5	6,945	42.5	16,349
1991.....	9,484	58.0	6,879	42.0	16,363
1992.....	9,637	59.8	6,469	40.2	16,106
1993.....	10,467	51.5	9,867	48.5	20,334
1994.....	10,461	54.2	8,848	45.8	19,309
1995.....	9,788	59.4	6,696	40.6	16,484
1996.....	9,565	58.1	6,909	41.9	16,474

(1) Preliminary.

(2) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.

Note:--The weights of U.S. landings and imports represent the round (live) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) which are shown in weight of meats (excluding the shell).

U.S. SUPPLY OF EDIBLE COMMERCIAL FISHERY PRODUCTS, 1987-96 (Round weight)

Year	Domestic commercial landings (1)		Imports (2)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1987.....	3,946	37.4	6,615	62.6	10,561
1988.....	4,588	43.7	5,917	56.3	10,505
1989.....	6,204	50.6	6,064	49.4	12,268
1990.....	7,041	55.6	5,621	44.4	12,662
1991.....	7,031	54.0	5,989	46.0	13,020
1992.....	7,618	57.5	5,624	42.5	13,242
1993.....	8,214	59.4	5,607	40.6	13,821
1994.....	7,936	57.9	5,778	42.1	13,714
1995.....	7,667	56.4	5,917	43.6	13,584
1996.....	7,475	54.9	6,150	45.1	13,625

(1) Preliminary.

(2) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.

U.S. SUPPLY OF INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1987-96 (Round weight)

Year	Domestic commercial landings (1)		Imports		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1987.....	2,950	56.9	2,233	43.1	5,183
1988.....	2,604	63.2	1,519	36.8	4,123
1989.....	2,259	70.2	958	29.8	3,217
1990.....	2,363	64.1	1,324	35.9	3,687
1991.....	2,453	73.4	890	26.6	3,343
1992.....	2,439	70.5	845	29.5	3,284
1993.....	2,019	34.6	4,260	65.4	6,279
1994.....	2,253	45.1	3,070	54.9	5,323
1995.....	2,525	73.1	779	26.9	3,304
1996.....	2,121	73.4	759	26.6	2,880

(1) Preliminary.

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1995 AND 1996

Item	Domestic commercial landings		Imports (1)		Total	
	1995	1996	1995	1996	1995	1996
-----Million pounds--round weight-----						
Edible fishery products:						
Finfish.....	6,414	6,205	4,278	4,494	10,692	10,699
Shellfish.....	1,252	1,271	1,639	1,656	2,891	2,927
Total.....	7,667	7,476	5,917	6,150	13,584	13,626
Industrial fishery products:						
Finfish.....	2,106	2,068	779	759	2,885	2,827
Shellfish.....	15	21	(3)	(3)	15	21
Total.....	2,121	2,089	779	759	2,900	2,848
Total:						
Finfish.....	8,520	8,273	5,057	5,253	13,577	13,526
Shellfish.....	1,267	1,292	1,639	1,656	2,906	2,948
Total.....	9,788	9,565	6,696	6,909	16,484	16,474

See footnotes below.

VALUE OF U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1995 AND 1996

Item	Domestic commercial landings		Imports (1)		Total	
	1995	1996	1995	1996	1995	1996
-----Million dollars-----						
Edible fishery products:						
Finfish.....	1,783	1,667	2,904	2,974	4,687	4,641
Shellfish.....	1,808	1,688	3,888	3,756	5,696	5,444
Total.....	3,591	3,355	6,792	6,730	10,383	10,085
Industrial fishery products:						
Finfish.....	133	124	25	34	158	158
Shellfish.....	12	8	(3)	(3)	12	8
Total.....	145	132	(2) 25	(2) 34	170	166
Total:						
Finfish.....	1,916	1,791	2,929	3,008	4,845	4,799
Shellfish.....	1,820	1,696	3,888	3,756	5,708	5,452
Total.....	3,736	3,487	6,817	6,764	10,553	10,251

(1) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.

(2) Includes only quantity and value of fish meal.

(3) Not available.

Note:--Value of domestic commercial landings is exvessel value.

SUPPLY OF FISHERY PRODUCTS

115

U.S. SUPPLY OF REGULAR AND MINCED BLOCKS, 1987-96 (Edible weight)

Year	U.S. Production	Imports	Total	Exports (1)	Total Supply
	-----		Thousand pounds	-----	
1987.....	13,559	403,577	417,136	(2)	417,136
1988.....	44,602	303,237	347,839	(2)	347,839
1989.....	30,898	283,278	314,176	35,296	278,880
1990.....	9,739	264,468	274,207	34,255	239,952
1991.....	22,013	290,485	312,498	14,502	297,996
1992.....	66,898	229,314	296,212	41,588	254,624
1993.....	37,860	211,569	249,429	38,199	211,230
1994.....	27,960	199,607	227,567	59,908	167,659
1995.....	38,460	210,275	248,735	36,689	212,046
1996.....	69,789	234,210	303,999	64,229	239,770

(1) For the period 1989-1991 data is estimated based on removal of surimi which was included in the export classification. (2) Not reported.

U.S. SUPPLY OF ALL FILLETS AND STEAKS, 1987-96 (Edible weight)

Year	U.S. Production (1)	Imports	Total	Exports	Total Supply
	-----		Thousand pounds	-----	
1987.....	356,081	620,985	977,066	66,036	911,030
1988.....	378,236	517,709	895,945	100,301	795,644
1989.....	371,082	517,620	888,702	68,931	819,771
1990.....	440,692	458,413	899,105	51,599	847,506
1991.....	472,668	440,018	912,686	69,086	843,600
1992.....	448,664	408,059	856,723	52,247	804,476
1993.....	420,169	440,354	860,523	48,847	811,676
1994.....	425,022	439,059	864,081	43,252	820,829
1995.....	385,293	477,483	862,776	50,785	811,991
1996.....	397,965	476,469	874,434	74,368	800,066

(1) Includes fillets used to produce blocks.

U.S. SUPPLY OF GROUNDFISH FILLETS AND STEAKS, 1987-96 (Edible weight)

Year	U.S. Production (1)	Imports	Total	Exports (2)	Total Supply
	-----		Thousand pounds	-----	
1987.....	199,743	315,418	515,161	12,341	502,820
1988.....	206,786	253,187	459,973	14,417	445,556
1989.....	211,498	265,001	476,499	9,652	466,847
1990.....	258,809	200,980	459,789	6,944	452,845
1991.....	264,323	202,409	466,732	34,442	432,290
1992.....	252,358	172,755	425,113	17,507	407,606
1993.....	233,755	186,516	420,271	12,242	408,029
1994.....	220,357	189,097	409,454	17,639	391,815
1995.....	216,699	184,845	401,544	24,606	376,938
1996.....	220,102	178,209	398,311	41,691	356,620

(1) Includes fillets used to produce blocks. Species include: cod, cusk, haddock, hake, pollock, and ocean perch. (2) Species include: cod 1987-96; pollock 1991-96.

SUPPLY OF FISHERY PRODUCTS

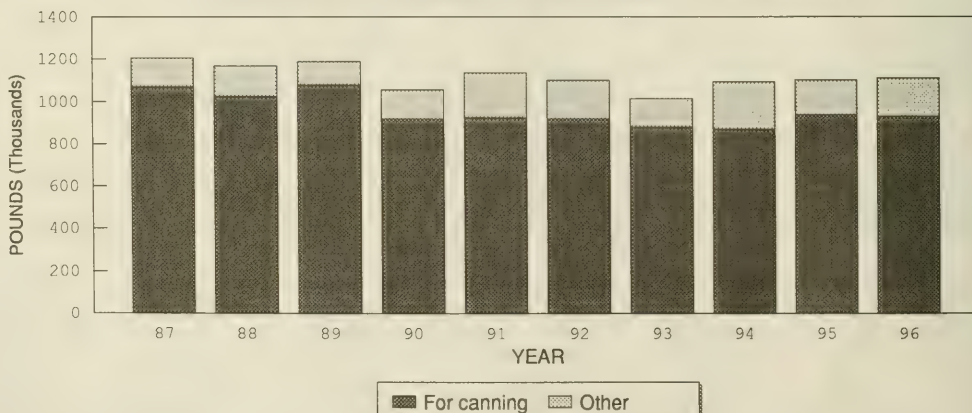
U.S. SUPPLY OF FRESH AND FROZEN TUNA, 1987-96
(Round weight)

Year	U.S. commercial landings (1)			Imports (2)			Exports Total	Total supply
	For canning	Other	Total	For canning	Other	Total		
	----- Thousand pounds -----							
1987.....	507,872	119,783	627,655	562,220	16,663	578,883	(3)	1,206,538
1988.....	486,640	122,935	609,575	538,588	18,900	557,488	(3)	1,167,063
1989.....	452,278	87,823	540,101	625,738	38,564	664,302	17,478	1,186,925
1990.....	391,954	119,955	511,909	526,496	37,826	564,322	19,773	1,056,458
1991.....	346,322	178,025	524,347	579,556	50,290	629,846	17,714	1,136,479
1992.....	435,924	137,933	573,857	482,677	63,524	546,201	20,011	1,100,047
1993.....	426,036	62,933	488,969	453,046	92,965	546,011	21,660	1,013,320
1994.....	401,732	157,695	559,427	469,514	92,352	561,866	28,512	1,092,781
1995.....	407,036	86,956	493,992	531,266	105,304	636,570	28,869	1,101,693
1996.....	364,652	91,612	456,264	567,266	119,247	686,513	31,382	1,111,395

(1) Includes a quantity of fish landed at other ports by U.S.-flag vessels.

(2) Includes landings in American Samoa of foreign caught fish.

(3) Not reported.

U.S. SUPPLY OF FRESH AND FROZEN TUNA
(Round weight)

SUPPLY OF FISHERY PRODUCTS

117

U.S. SUPPLY OF CANNED SARDINES, 1987-96 (Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
-----Thousand pounds-----					
1987.....	13,116	65,022	78,138	1,157	76,981
1988.....	18,611	53,359	71,970	8,717	63,253
1989.....	13,221	56,379	69,600	9,070	60,530
1990.....	13,240	56,963	70,203	9,048	61,155
1991.....	13,986	48,515	62,501	10,668	51,833
1992.....	17,437	36,511	53,948	12,690	41,258
1993.....	14,354	39,111	53,465	12,275	41,190
1994.....	15,560	43,942	59,502	11,010	48,492
1995.....	13,567	42,280	55,847	11,773	44,074
1996.....	17,672	40,926	58,598	12,207	46,391

U.S. SUPPLY OF CANNED SALMON, 1987-96 (Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
-----Thousand pounds-----					
1987.....	105,206	6,652	111,858	36,108	75,750
1988.....	88,419	3,528	91,947	32,993	58,954
1989.....	197,044	2,943	199,987	40,497	159,490
1990.....	196,383	1,378	197,761	49,546	148,215
1991.....	195,744	983	196,727	66,134	130,593
1992.....	149,453	974	150,427	77,895	72,532
1993.....	198,344	428	198,772	84,610	114,162
1994.....	206,841	1,093	207,934	90,915	117,019
1995.....	243,568	1,202	244,770	98,197	146,573
1996.....	197,163	2,266	199,429	95,530	103,899

U.S. SUPPLY OF CANNED TUNA, 1987-96 (Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
-----Thousand pounds-----					
1987.....	653,983	211,685	865,668	(1)	865,668
1988.....	598,181	244,504	842,685	(1)	842,685
1989.....	686,267	348,212	1,034,479	6,495	1,027,984
1990.....	580,601	284,593	865,194	9,039	856,155
1991.....	592,786	351,744	944,530	11,310	933,220
1992.....	608,981	323,413	932,394	10,141	922,253
1993.....	618,743	224,419	843,162	8,534	834,628
1994.....	609,514	249,043	858,557	8,391	850,166
1995.....	666,581	215,365	881,946	7,385	874,561
1996.....	675,816	193,037	868,853	9,866	858,987

(1) Not reported.

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF KING CRAB, 1987-96
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (1)	Total supply
-----Thousand pounds-----					
1987.....	29,065	(2)	29,065	15,039	14,026
1988.....	20,973	(2)	20,973	10,554	10,419
1989.....	26,391	5,150	31,541	(3) 13,196	18,345
1990.....	33,917	4,925	38,842	(3) 19,486	19,356
1991.....	28,140	7,087	35,227	15,320	19,907
1992.....	19,056	11,958	31,014	16,241	14,773
1993.....	24,732	7,395	32,127	24,372	7,755
1994.....	11,960	15,035	26,995	15,013	11,982
1995.....	14,673	18,360	33,033	11,847	21,186
1996.....	21,000	26,533	47,533	17,650	29,883

(1) Imports, exports, foreign exports converted to round (live) weight by using these conversion factors: frozen, 1.75; meat, 4.50; and canned, 5.33 (2) Not reported.
(3) Estimated, based on available foreign import data.

U.S. SUPPLY OF SNOW (TANNER) CRABS, 1987-96
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
-----Thousand pounds-----					
1987.....	113,812	7,706	121,518	92,644	28,874
1988.....	146,326	6,765	153,091	122,741	30,350
1989.....	164,643	3,927	168,570	(3) 111,028	57,542
1990.....	213,395	10,772	224,167	(3) 187,069	37,098
1991.....	357,122	19,091	376,213	(3) 316,162	60,051
1992.....	350,039	18,882	368,921	281,214	87,707
1993.....	255,733	31,224	286,957	220,618	66,339
1994.....	159,574	27,446	187,020	147,006	40,014
1995.....	80,817	20,969	101,786	59,805	41,981
1996.....	67,867	28,336	96,203	50,509	45,694

(1) Converted to round (live) weight by multiplying fresh and frozen by 1.50; meat, 4.50; and canned, 5.00. (2) Domestic merchandise converted to round (live) weight by multiplying frozen weight by 2.13 (believed to be mostly sections); meat, 4.50; and canned, 5.33. Foreign exports converted using the same factors as imports. (3) Estimated, based on available foreign import data.

U.S. SUPPLY OF CANNED CRABMEAT, 1987-96
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
-----Thousand pounds-----					
1987.....	200	7,967	8,167	63	8,104
1988.....	359	7,720	8,079	250	7,829
1989.....	504	8,280	8,784	930	7,854
1990.....	695	8,563	9,258	434	8,824
1991.....	77	11,385	11,462	525	10,937
1992.....	99	9,577	9,676	789	8,887
1993.....	70	9,817	9,887	668	9,219
1994.....	17	9,852	9,869	511	9,358
1995.....	65	12,441	12,506	276	12,230
1996.....	93	12,773	12,866	337	12,529

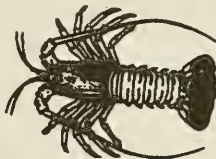
SUPPLY OF FISHERY PRODUCTS

119

U.S. SUPPLY OF AMERICAN LOBSTERS, 1987-96 (Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
-----Thousand pounds-----					
1987.....	45,558	70,207	115,765	(3)	115,765
1988.....	48,643	72,638	121,281	(3)	121,281
1989.....	52,926	42,530	95,456	10,310	85,146
1990.....	61,017	49,592	110,609	15,274	95,335
1991.....	63,337	65,381	128,718	21,485	107,233
1992.....	55,841	59,335	115,176	20,332	94,844
1993.....	56,513	55,570	112,083	20,354	91,729
1994.....	66,416	65,949	132,365	31,646	100,719
1995.....	66,406	62,923	129,329	35,587	93,742
1996.....	71,641	65,379	137,020	39,919	97,101

(1) Only imports from Canada and St. Pierre and Miquelon are considered American lobster and were converted to round (live) by using these conversion factors: 1.00, Whole; 4.50, meat; and 4.64, canned. (2) Domestic exports converted to live weight by 1.00, whole; 4.00, meat; and 4.50, canned. Foreign exports converted using import factors. (3) Not reported.



U.S. SUPPLY OF SPINY LOBSTERS, 1987-96 (Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
-----Thousand pounds-----					
1987.....	5,755	145,706	151,461	(3)	151,461
1988.....	7,166	132,071	139,237	(3)	139,237
1989.....	8,125	87,793	95,918	6,373	89,545
1990.....	7,120	88,426	95,546	6,948	88,598
1991.....	7,096	81,332	88,428	3,388	85,040
1992.....	4,872	77,848	82,720	2,001	80,719
1993.....	6,076	70,884	76,960	1,306	75,654
1994.....	8,104	68,787	76,891	1,304	75,587
1995.....	7,123	86,900	94,023	5,035	88,988
1996.....	8,308	75,595	83,903	3,033	80,870

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 3.00, tails; 4.35, other; and 4.50 canned. (2) Domestic exports converted to round weight by using: 1.00, whole; 3.00, tails; 4.00, other; 4.50, canned. Foreign exports converted using import factors. (3) Not reported.

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF CLAMS, 1987-96

(Meat weight)

Year	U.S. commercial landings (1)	Imports (2)	Total	Exports	Total supply
-----Thousand pounds-----					
1987.....	134,357	17,641	151,998	1,157	150,841
1988.....	131,740	14,872	146,612	1,458	145,154
1989.....	138,166	13,254	151,420	1,863	149,557
1990.....	139,198	15,830	155,028	2,961	152,067
1991.....	134,243	12,291	146,534	2,948	143,586
1992.....	142,449	14,262	156,711	1,662	155,049
1993.....	147,752	9,579	157,331	1,809	155,522
1994.....	131,427	15,507	146,934	2,617	144,317
1995.....	134,224	12,645	146,869	2,853	144,016
1996.....	123,239	14,340	137,579	3,448	134,131

(1) For specific breakout see table on page 1.

(2) Imports and exports were converted to meat weight by using these conversion factors: 0.40, in shell or shucked; 0.30, canned chowder and juice; and 0.93, other.

U.S. SUPPLY OF OYSTERS, 1987-96

(Meat weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports	Total supply
-----Thousand pounds-----					
1987.....	39,807	52,085	91,892	(2)	91,892
1988.....	31,892	46,414	78,306	(2)	78,306
1989.....	29,250	37,662	66,912	1,090	65,822
1990.....	29,193	27,546	56,739	1,004	55,735
1991.....	31,859	30,547	62,406	739	61,667
1992.....	36,156	26,529	62,685	797	61,888
1993.....	33,575	28,244	61,819	1,131	60,688
1994.....	38,086	24,694	62,780	1,988	60,792
1995.....	40,380	24,200	64,580	1,908	62,672
1996.....	38,007	21,708	59,715	1,648	58,067

(1) Imports and exports were converted to meat weight by using these conversion factors:

0.93, canned; 3.12, canned smoked; and 0.75, other. (2) Not reported.

U.S. SUPPLY OF SCALLOPS, 1987-96

(Meat weight)

Year	U.S. commercial landings (1)	Imports	Total	Exports	Total supply
-----Thousand pounds-----					
1987.....	40,773	39,934	80,707	1,343	79,364
1988.....	42,994	32,039	75,033	1,369	73,664
1989.....	40,611	40,874	81,485	2,498	78,987
1990.....	41,591	39,839	81,430	7,099	74,331
1991.....	39,740	29,528	69,268	7,083	62,185
1992.....	33,884	38,682	72,566	3,589	68,977
1993.....	18,638	51,973	70,611	4,147	66,464
1994.....	25,469	56,676	82,145	5,990	76,155
1995.....	19,526	48,331	67,857	5,926	61,931
1996.....	18,197	58,686	76,883	6,191	70,692

(1) For specific breakout see table on page 1.

SUPPLY OF FISHERY PRODUCTS

121

U.S. SUPPLY OF ALL FORMS OF SHRIMP, 1987-96 (Heads-off weight)

Year	U.S. commercial landings (1)	Imports (2)	Total	Exports (3)	Total supply
-----Thousand pounds-----					
1987.....	223,514	583,030	806,544	33,813	772,731
1988.....	203,350	598,210	801,560	34,784	766,776
1989.....	215,825	563,523	779,348	36,056	743,292
1990.....	213,899	579,427	793,326	59,683	733,643
1991.....	198,115	632,775	830,890	87,186	743,704
1992.....	207,086	694,254	901,340	81,604	819,736
1993.....	180,687	708,683	889,370	81,447	807,923
1994.....	174,969	749,993	924,962	77,755	847,207
1995.....	190,208	719,463	909,671	77,677	831,994
1996.....	195,902	720,852	916,754	72,190	844,564

(1) Commercial landings were converted to heads-off weight by using these conversion factors: South Atlantic and Gulf, 0.629; and New England, Pacific and other, 0.57.

(2) Imports were converted to heads-off weight by using these conversion factors: breaded, 0.63; shell-on, 1.00; peeled raw, 1.28; canned, 2.52; and other, 2.40.

(3) Exports were converted to heads-off weight by using these conversion factors: domestic--fresh and frozen, 1.18; canned, 2.02; other, 2.40; foreign--fresh and frozen, 1.00; canned, 2.52; and other, 2.40.



U.S. SUPPLY OF CANNED SHRIMP, 1987-96 (Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
-----Thousand pounds-----					
1987.....	4,382	17,132	21,514	2,419	19,095
1988.....	4,476	14,138	18,614	2,187	16,427
1989.....	2,623	11,315	13,938	2,128	11,810
1990.....	710	9,735	10,445	2,670	7,775
1991.....	632	9,361	9,993	2,352	7,641
1992.....	640	9,273	9,913	1,931	7,982
1993.....	658	8,170	8,828	2,557	6,271
1994.....	463	6,314	6,777	1,841	4,936
1995.....	912	6,570	7,482	3,250	4,232
1996.....	819	3,563	4,382	2,665	1,717

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF FISH MEAL AND SOLUBLES, 1987-96
(Product weight)

Year	U.S. production (1)	Imports (2)	Total	Exports	Total supply
-----Thousand pounds-----					
1987.....	911,622	393,730	1,305,352	104,086	1,201,266
1988.....	755,520	265,310	1,020,830	153,946	866,884
1989.....	734,736	171,112	905,848	107,350	798,498
1990.....	670,328	239,426	909,754	141,888	767,866
1991.....	697,520	158,916	856,436	206,320	650,116
1992.....	691,016	150,911	841,927	258,511	583,416
1993.....	814,196	760,664	1,574,860	212,859	1,362,001
1994.....	880,852	548,288	1,429,140	159,937	1,269,203
1995.....	711,996	139,101	851,097	176,981	674,116
1996.....	679,472	135,561	815,033	186,412	628,621

(1) Includes shellfish meal production plus the production of U.S. solubles. (2) Data do not include imports of fish solubles.

Note:--Wet weight of solubles has been converted to dry weight by reducing its poundage by one-half.

U.S. SUPPLY OF FISH MEAL, 1987-96
(Product weight)

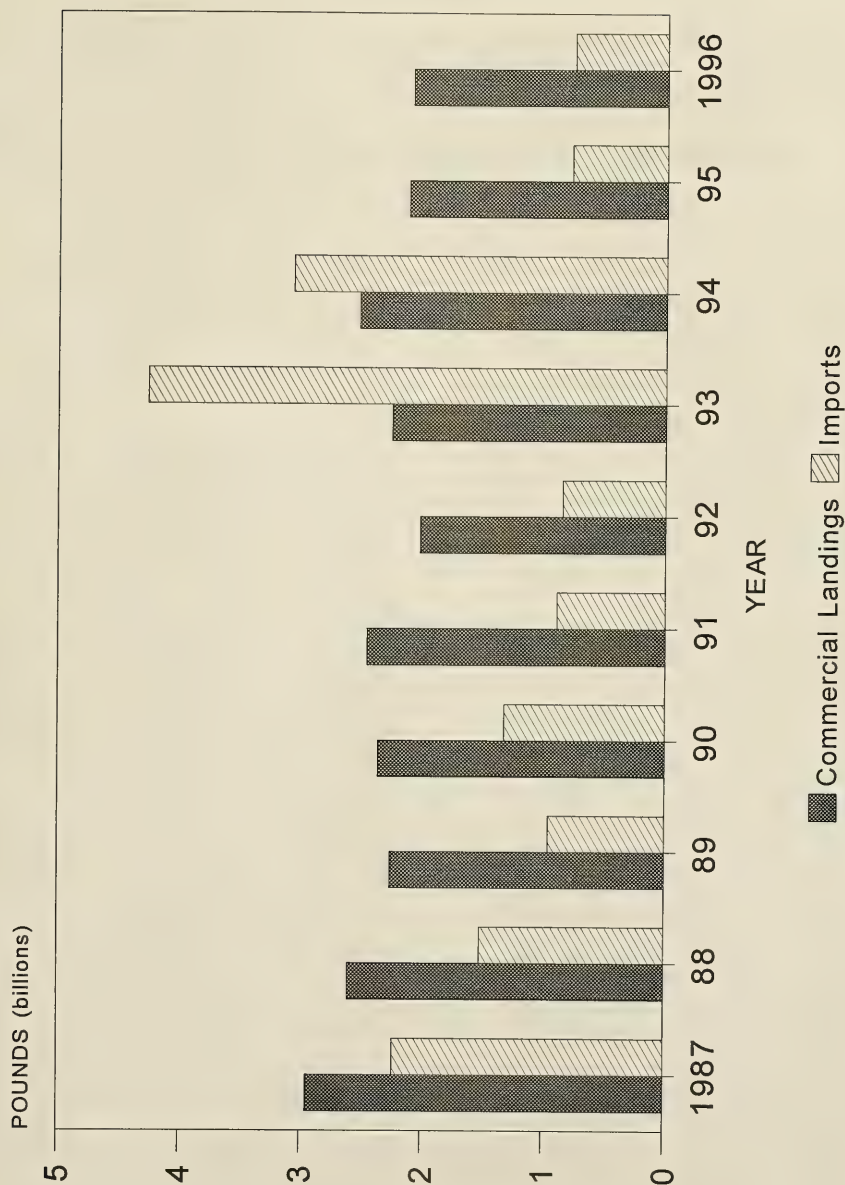
Year	U.S. production (1)	Imports	Total	Exports	Total supply
-----Thousand pounds-----					
1987.....	786,978	393,730	1,180,708	104,086	1,076,622
1988.....	643,796	265,310	909,106	153,946	755,160
1989.....	618,382	171,112	789,494	107,350	682,144
1990.....	577,498	239,426	816,924	141,888	675,036
1991.....	612,716	158,916	771,632	206,320	565,312
1992.....	644,512	150,911	795,423	258,511	536,912
1993.....	750,744	760,664	1,511,408	212,859	1,298,549
1994.....	807,833	548,288	1,356,121	159,937	1,196,184
1995.....	667,240	139,101	806,341	176,981	629,360
1996.....	638,500	135,561	774,061	186,412	587,649

(1) Includes shellfish meal.

U.S. SUPPLY OF FISH OILS, 1987-96

Year	U.S. production	Imports	Total	Exports	Total supply
-----Thousand pounds-----					
1987.....	298,496	25,697	324,193	249,246	74,947
1988.....	224,733	27,667	252,400	150,002	102,398
1989.....	225,478	25,449	250,927	198,009	52,918
1990.....	281,949	36,702	318,651	236,589	82,062
1991.....	267,345	21,828	289,173	254,525	34,648
1992.....	184,725	23,772	208,497	177,444	31,053
1993.....	293,452	26,052	319,504	184,488	135,016
1994.....	291,189	40,642	331,831	242,788	89,043
1995.....	241,941	23,913	265,854	260,394	5,460
1996.....	248,399	35,622	284,021	187,294	96,727

**SUPPLY OF INDUSTRIAL FISHERY PRODUCTS
(ROUND WEIGHT)
1987- 1996**



PER CAPITA

U.S. CONSUMPTION

Annual per capita consumption of seafood products represents the pounds of edible meat consumed from domestically-caught and imported fish and shellfish adjusted for beginning and ending inventories, and exports, divided by the civilian population of the United States as of July 1 of each year.

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-96

Year	Civilian resident population July 1 (1)	Per capita consumption			
		Fresh and frozen (2)	Canned (3)	Cured (4)	Total
	<u>Million persons</u>	<u>-----Pounds, edible meat-----</u>			
1909 (5).....	90.5	4.3	2.7	*4.0	11.0
1910.....	92.2	4.5	2.8	3.9	11.2
1911.....	93.9	4.8	2.8	3.7	11.3
1912.....	95.3	5.0	2.9	3.4	11.3
1913.....	97.2	5.3	2.9	3.3	11.5
1914.....	99.1	5.6	3.0	3.1	8.7
1915.....	100.5	5.8	2.4	3.0	11.2
1916.....	102.0	6.0	2.2	2.8	11.0
1917.....	103.3	6.2	2.0	2.7	10.9
1918.....	103.2	6.4	2.0	2.5	10.9
1919.....	104.5	6.4	2.8	2.4	11.6
1920.....	106.5	6.3	3.2	2.3	11.8
1921.....	108.5	6.2	2.2	2.1	10.5
1922.....	110.0	6.1	3.2	2.0	11.3
1923.....	111.9	6.0	2.9	1.8	10.7
1924.....	114.1	6.1	3.2	1.7	11.0
1925.....	115.8	6.3	3.2	1.6	11.1
1926.....	117.4	6.6	3.4	1.4	11.4
1927.....	119.0	7.0	3.9	1.3	12.2
1928.....	120.5	7.1	3.9	1.1	12.1
1929.....	121.8	6.9	3.9	1.1	11.9
1930.....	122.9	5.8	3.4	1.0	10.2
1931.....	123.9	4.9	3.2	0.7	8.8
1932.....	124.7	4.3	3.4	0.7	8.4
1933.....	125.4	4.2	3.9	0.6	8.7
1934.....	126.2	4.3	4.2	0.7	9.2
1935.....	127.1	5.1	4.7	0.7	10.5
1936.....	127.9	5.2	*5.8	0.7	11.7
1937.....	128.6	5.6	5.3	0.9	11.8
1938.....	129.6	5.2	4.8	0.8	10.8
1939.....	130.7	5.3	4.7	0.7	10.7
1940.....	132.1	5.7	4.6	0.7	11.0
1941.....	132.1	6.3	4.2	0.7	11.2
1942.....	131.4	5.2	2.9	0.6	8.7
1943.....	128.0	5.5	1.8	0.6	7.9
1944.....	127.2	5.5	2.6	0.6	8.7
1945.....	128.1	6.6	2.6	0.7	9.9
1946.....	138.9	5.9	4.2	0.7	10.8
1947.....	143.1	5.8	3.8	0.7	10.3
1948.....	145.7	6.0	4.4	0.7	11.1
1949.....	148.2	5.8	4.5	0.6	10.9
1950.....	150.8	6.3	4.9	0.6	11.8
1951.....	151.6	6.3	4.3	0.6	11.2
1952.....	153.9	6.2	4.3	0.7	11.2
1953.....	156.6	6.4	4.3	0.7	11.4
1954.....	159.7	6.2	4.3	0.7	11.2
1955.....	163.0	5.9	3.9	0.7	10.5
1956.....	166.1	5.7	4.0	0.7	10.4
1957.....	169.1	5.5	4.0	0.7	10.2
1958.....	172.2	5.7	4.3	0.6	10.6
1959.....	175.3	5.9	4.4	0.6	10.9

See notes at end of table.

(Continued)

U.S. CONSUMPTION

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-96 - Continued

Year	Civilian resident population July 1 (1)	Per capita consumption			
		Fresh and frozen (2)	Canned (3)	Cured (4)	Total
	<u>Million persons</u>	-----Pounds, edible meat-----			
1960.....	178.1	5.7	4.0	0.6	10.3
1961.....	181.1	5.9	4.3	0.5	10.7
1962.....	183.7	5.8	4.3	0.5	10.6
1963.....	186.5	5.8	4.4	0.5	10.7
1964.....	189.1	5.9	4.1	0.5	10.5
1965.....	191.6	6.0	4.3	0.5	10.8
1966.....	193.4	6.1	4.3	0.5	10.9
1967.....	195.3	5.8	4.3	0.5	10.6
1968.....	197.1	6.2	4.3	0.5	11.0
1969.....	199.1	6.6	4.2	0.4	11.2
1970.....	201.9	6.9	4.5	0.4	11.8
1971.....	204.9	6.7	4.3	0.5	11.5
1972.....	207.5	7.1	4.9	0.5	12.5
1973.....	209.6	7.4	5.0	0.4	12.8
1974.....	211.6	6.9	4.7	0.5	12.1
1975.....	213.8	7.5	4.3	0.4	12.2
1976.....	215.9	8.2	4.2	0.5	12.9
1977.....	218.1	7.7	4.6	0.4	12.7
1978.....	220.5	8.1	5.0	0.3	13.4
1979.....	223.0	7.8	4.8	0.4	13.0
1980.....	225.6	7.9	4.3	0.3	12.5
1981.....	227.8	7.8	4.6	0.3	12.7
1982.....	230.0	7.9	4.3	0.3	12.5
1983.....	232.1	8.4	4.7	0.3	13.4
1984.....	234.1	9.0	4.9	0.3	14.2
1985.....	236.2	9.8	5.0	0.3	15.1
1986.....	238.4	9.8	5.4	0.3	15.5
1987.....	240.6	*10.7	5.2	0.3	*16.2
1988.....	242.8	10.0	4.9	0.3	15.2
1989.....	245.1	10.2	5.1	0.3	15.6
1990.....	247.8	9.6	5.1	0.3	15.0
1991.....	250.5	9.7	4.9	0.3	14.9
1992.....	253.5	9.9	4.6	0.3	14.8
1993.....	256.4	10.2	4.5	0.3	15.0
1994.....	259.2	10.4	4.5	0.3	15.2
1995.....	261.4	10.0	4.7	0.3	15.0
1996.....	264.0	10.0	4.5	0.3	14.8

(1) Resident population for 1909 to 1929 and civilian resident population for 1930 to date.

(2) Fresh and frozen fish consumption from 1910 to 1928 is estimated. Beginning in 1973, data include consumption of artificially cultivated catfish. Domestic landings used in calculating consumption are preliminary after 1977.

(3) Canned fish consumption for 1911 to 1920 is estimated. Beginning in 1921, it is based on production reports, packer stocks, and foreign trade statistics for individual years.

(4) Cured fish consumption for 1910 to 1928 is estimated.

(5) Data for 1909 estimate based on the 1908 census and foreign trade data.

*Record.

PER CAPITA

U.S. CONSUMPTION

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1976-96

Year	Salmon	Sardines	Tuna	Shellfish	Other	Total
-----Pounds-----						
1976...	0.3	0.3	2.8	0.4	0.4	4.2
1977...	0.5	0.3	2.8	0.6	0.4	4.6
1978...	0.6	0.3	3.3	0.5	0.3	5.0
1979...	0.5	0.3	3.2	0.5	0.3	4.8
1980...	0.5	0.3	3.0	0.4	0.1	4.3
1981...	0.5	0.4	3.0	0.4	0.3	4.6
1982...	0.5	0.3	2.8	0.4	0.3	4.3
1983...	0.5	0.2	3.2	0.4	0.4	4.7
1984...	0.6	0.2	3.2	0.4	0.5	4.9
1985...	0.5	0.3	3.3	0.5	0.4	5.0
1986...	0.5	0.3	3.6	0.5	0.5	5.4
1987...	0.4	0.3	3.5	0.5	0.5	5.2
1988...	0.3	0.3	3.6	0.4	0.3	4.9
1989...	0.3	0.3	3.9	0.4	0.2	5.1
1990...	0.4	0.3	3.7	0.3	0.4	5.1
1991...	0.5	0.2	3.6	0.4	0.2	4.9
1992...	0.5	0.2	3.5	0.3	0.1	4.6
1993...	0.4	0.2	3.5	0.3	0.1	4.5
1994...	0.4	0.2	3.3	0.3	0.3	4.5
1995...	0.5	0.2	3.4	0.3	0.3	4.7
1996...	0.5	0.2	3.2	0.3	0.3	4.5

NOTE:--Domestic landings data used in calculating these data are preliminary after 1977.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1976-96

Year	Filletts and steaks (1)	Sticks and portions	Shrimp all preparation
-----Pounds (2)-----			
1976...	2.5	2.0	1.5
1977...	2.5	2.0	1.6
1978...	2.7	2.2	1.5
1979...	2.7	*2.2	1.3
1980...	2.4	2.0	1.4
1981...	2.4	1.8	1.5
1982...	2.5	1.7	1.5
1983...	2.7	1.8	1.7
1984...	3.0	1.8	1.9
1985...	3.2	1.8	2.0
1986...	3.4	1.8	2.2
1987...	*3.6	1.7	2.4
1988...	3.2	1.5	2.4
1989...	3.1	1.5	2.3
1990...	3.1	1.5	2.2
1991...	3.0	1.2	2.4
1992...	2.9	0.9	2.5
1993...	2.9	1.0	2.5
1994...	3.1	0.9	*2.6
1995...	2.9	1.2	2.5
1996...	3.0	1.0	2.5

(1) Data include groundfish and other species. Data do not include blocks, but filletts could be made into blocks from which sticks and portions could be produced.

(2) Product weight of filletts and steaks and sticks and portions, edible (meat) weight of shrimp.
*Record.

Note:--Domestic landings data used in calculating these data are preliminary after 1977.

PER CAPITA

127

U.S. USE

Per capita use of commercial fish and shellfish is based on the supply of fishery products, both edible and nonedible (industrial), on a round weight equivalent basis, without considering beginning or ending stocks, defense purchases, or exports.

Per capita use figures are not comparable with per capita consumption data. Per capita consumption figures represent edible (for human use) meat weight consumption rather than round weight consumption. In addition, per capita consumption includes allowances for beginning and ending stocks and exports, whereas the use does not include such allowances.

Per capita use is derived by using total population including U.S. Armed Forces overseas. The per capita consumption is derived by using civilian resident population.

U.S. ANNUAL PER CAPITA USE OF COMMERCIAL FISH AND SHELLFISH, 1960-96 (1)

Year	Total population including armed forces overseas July 1	U.S. supply			
			Commercial landings	Imports	Total
	<u>Million persons</u>	<u>Million pounds</u>	<u>-----Pounds-----</u>		
1960.....	180.7	8,223	27.3	18.2	45.5
1961.....	183.7	9,570	28.2	23.9	52.1
1962.....	186.5	10,408	28.7	27.1	55.8
1963.....	189.2	11,434	25.6	34.8	60.4
1964.....	191.9	12,031	23.7	39.0	62.7
1965.....	194.3	10,535	24.6	29.6	54.2
1966.....	196.6	12,469	22.2	41.2	63.4
1967.....	198.7	13,991	20.4	50.0	70.4
1968.....	200.7	17,381	20.7	65.9	86.6
1969.....	202.7	11,847	21.4	37.0	58.4
1970.....	205.1	11,474	24.0	31.9	55.9
1971.....	207.7	11,804	24.1	32.7	56.8
1972.....	209.9	13,849	22.9	43.1	66.0
1973.....	211.9	10,378	22.9	26.1	49.0
1974.....	213.9	9,875	23.2	23.0	46.2
1975.....	216.0	10,164	22.6	24.5	47.1
1976.....	218.0	11,593	24.7	28.5	53.2
1977.....	220.2	10,652	23.9	24.4	48.3
1978.....	222.6	11,509	27.1	24.6	51.7
1979.....	225.1	11,831	27.9	24.7	52.6
1980.....	227.7	11,357	28.5	21.4	49.9
1981.....	230.0	11,353	26.0	23.4	49.4
1982.....	232.2	12,011	27.4	24.3	51.7
1983.....	234.3	12,352	27.5	25.2	52.7
1984.....	236.3	12,552	27.3	25.8	53.1
1985.....	238.5	15,150	26.2	37.3	63.5
1986.....	240.7	14,368	25.1	34.6	59.7
1987.....	242.8	15,744	28.4	36.4	64.8
1988.....	245.0	14,628	29.3	30.4	59.7
1989.....	247.3	15,485	34.2	28.4	62.6
1990.....	249.9	16,349	37.6	27.8	65.4
1991.....	252.7	16,363	37.5	27.3	64.8
1992.....	255.5	16,106	37.7	25.3	63.0
1993.....	258.2	20,334	40.6	38.2	78.8
1994.....	260.7	19,309	40.1	34.0	74.1
1995.....	263.0	16,484	37.2	25.5	62.7
1996.....	265.3	16,474	36.1	26.0	62.1

(1) Data include U.S. commercial landings and imports of both edible and nonedible (industrial) fishery products on a round weight basis. "Total supply" is not adjusted for beginning and ending stocks, defense purchases, or exports.

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD,
BY REGION AND COUNTRY, 1991-93 AVERAGE

Region and Country	Estimated live weight equivalent		Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds		Kilograms	Pounds
North America:			Europe - Continued:		
Canada.....	23.0	50.7	Belarus.....	1.4	3.1
Greenland.....	82.3	181.4	Belgium and Luxembourg.....	18.6	41.0
St. Pierre and Miquelon.....	57.4	126.5	Bosnia-Herzegovina.....	0.7	1.5
United States.....	21.8	48.1	Bulgaria.....	2.6	5.7
Caribbean:			Croatia.....	1.2	2.6
Anguilla.....	48.1	106.0	Czech Republic.....	1.6	3.5
Antigua.....	63.1	139.1	Denmark.....	20.5	45.2
Aruba.....	30.9	68.1	Estonia.....	43.6	96.1
Bahamas.....	24.9	54.9	Faeroe Island.....	86.4	190.5
Barbados.....	25.8	56.9	Finland.....	32.5	71.6
Bermuda.....	36.5	80.5	France.....	29.0	63.9
British Virgin Islands.....	79.5	175.3	Georgia.....	8.4	18.5
Cayman Islands.....	32.1	70.8	Germany.....	12.5	27.6
Cuba.....	11.8	26.0	Greece.....	22.5	49.6
Dominica.....	25.3	55.8	Hungary.....	4.0	8.8
Dominican Republic.....	8.2	18.1	Iceland.....	91.8	202.4
Grenada.....	39.0	86.0	Ireland.....	15.1	33.3
Guadeloupe.....	42.2	93.0	Italy.....	22.1	48.7
Haiti.....	2.6	5.7	Kazakhstan.....	4.1	9.0
Jamaica.....	15.9	35.1	Kyrgyzstan.....	0.2	0.4
Martinique.....	50.8	112.0	Latvia.....	34.9	76.9
Montserrat.....	9.9	21.8	Lithuania.....	33.0	72.8
Netherlands Antilles.....	20.3	44.8	Macedonia.....	2.1	4.6
St. Christopher-Nevis.....	50.8	112.0	Malta.....	23.8	52.5
Saint Lucia.....	20.9	46.1	Moldova.....	1.1	2.4
St. Vincent.....	17.2	37.9	Monaco.....	0.1	0.2
Trinidad-Tobago.....	11.5	25.4	Netherlands.....	11.4	25.1
Turks & Caicos.....	40.2	88.6	Norway.....	45.9	101.2
Latin America:			Poland.....	9.9	21.8
Argentina.....	7.4	16.3	Portugal.....	58.6	129.2
Belize.....	7.2	15.9	Romania.....	2.9	6.4
Bolivia.....	1.1	2.4	Russian Federation.....	18.9	41.7
Brazil.....	5.7	12.6	Slovakia.....	0.2	0.4
Chile.....	29.8	65.7	Slovenia.....	2.5	5.5
Colombia.....	3.1	6.8	Spain.....	38.0	83.8
Costa Rica.....	5.1	11.2	Sweden.....	26.8	59.1
Ecuador.....	7.2	15.9	Switzerland.....	13.4	29.5
El Salvador.....	2.4	5.3	Tajikistan.....	0.7	1.5
French Guiana.....	35.8	78.9	Turkmenistan.....	10.1	22.3
Guatemala.....	0.8	1.8	Ukraine.....	8.7	19.2
Guyana.....	43.7	96.3	United Kingdom.....	18.5	40.8
Honduras.....	1.1	2.4	Uzbekistan.....	1.2	2.6
Mexico.....	11.7	25.8	Yugoslavia.....	1.2	2.6
Nicaragua.....	1.3	2.9	Near East:		
Panama.....	16.0	35.3	Afghanistan.....	0.1	0.2
Paraguay.....	3.7	8.2	Bahrain.....	17.8	39.2
Peru.....	18.5	40.8	Cyprus.....	17.2	37.9
Suriname.....	20.6	45.4	Egypt.....	7.2	15.9
Uruguay.....	6.3	13.9	Iran.....	5.3	11.7
Venezuela.....	14.9	32.8	Iraq.....	1.1	2.4
Europe:			Israel.....	20.9	46.1
Albania.....	0.7	1.5	Jordan.....	3.0	6.6
Armenia.....	1.3	2.9	Kuwait.....	7.7	17.0
Austria.....	9.8	21.6	Lebanon.....	0.7	1.5
Azerbaijan.....	5.2	11.5	Libya.....	4.0	8.8
			Oman.....	23.3	51.4
			Qatar.....	19.9	43.9
			Saudi Arabia.....	5.9	13.0
			Sudan.....	1.4	3.1
			Syria.....	0.5	1.1
			Turkey.....	6.7	14.8
			United Arab Emirates.....	24.8	54.7
			Yemen Republic.....	6.7	14.8

See note at end of table.

(Continued on next page)

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD,
BY REGION AND COUNTRY, 1991-93 AVERAGE

Region and Country	Estimated live weight equivalent		Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds		Kilograms	Pounds
Far East:			Africa - Continued:		
Bangladesh.....	8.2	18.1	Madagascar.....	7.3	16.1
Brunei.....	21.8	48.1	Malawi.....	6.4	14.1
Burma.....	15.6	34.4	Mali.....	7.0	15.4
Cambodia.....	12.0	26.5	Mauritania.....	17.4	38.4
China.....	12.4	27.3	Mauritius.....	26.0	57.3
Hong Kong.....	58.8	129.6	Morocco.....	7.9	17.4
India.....	4.0	8.8	Mozambique.....	2.3	5.1
Indonesia.....	15.6	34.4	Namibia.....	10.8	23.8
Japan.....	67.0	147.7	Niger.....	0.4	0.9
Laos.....	6.7	14.8	Nigeria.....	8.3	18.3
Macao.....	39.4	86.9	Reunion.....	24.7	54.5
Maldives.....	125.8	277.3	Rwanda.....	0.7	1.5
Malaysia.....	29.5	60.6	Sao Tome.....	20.9	46.1
Mongolia.....	0.8	1.8	Senegal.....	27.0	59.5
Nepal.....	0.8	1.8	Seychelles.....	71.4	157.4
North Korea.....	43.2	95.2	Sierra Leone.....	14.7	32.4
Pakistan.....	2.1	4.6	Somalia.....	1.3	2.9
Philippines.....	36.1	79.6	South Africa.....	4.9	10.8
Singapore.....	36.8	81.1	St. Helena.....	55.3	121.9
South Korea.....	47.7	105.2	Swaziland.....	0.1	0.2
Sri Lanka.....	16.2	35.7	Tanzania.....	12.2	26.9
Taiwan.....	37.0	81.6	Togo.....	11.0	24.3
Thailand.....	25.4	56.0	Tunisia.....	18.8	41.4
Vietnam.....	13.4	29.5	Uganda.....	11.8	26.0
			Zaire.....	5.8	12.8
			Zambia.....	7.9	17.4
			Zimbabwe.....	2.2	4.9
Africa:			Oceania:		
Algeria.....	3.4	7.5	Australia.....	18.7	41.2
Angola.....	11.8	26.0	Fiji.....	36.5	80.5
Benin.....	10.8	23.8	French Polynesia.....	34.2	75.4
Botswana.....	8.0	17.6	Kiribati.....	73.9	162.9
Burkina.....	1.4	3.1	Marshall.....	4.7	10.4
Burundi.....	3.8	8.4	Micronesia.....	18.7	41.2
Cameroon.....	8.8	19.4	Nauru.....	33.9	74.7
Cape Verde.....	18.1	39.9	Niue.....	61.7	136.0
Central African Rep.....	4.6	10.1	New Caledonia.....	20.9	46.1
Chad.....	5.8	12.8	New Zealand.....	17.7	39.0
Comoros.....	14.7	32.4	Palau.....	93.4	205.9
Congo.....	32.6	71.9	Papua New Guinea.....	21.9	48.3
Djibouti.....	1.6	3.5	Solomon Islands.....	32.2	71.0
Equatorial Guinea.....	22.9	50.5	Tokelau.....	103.7	228.6
Eritrea.....	0.1	0.2	Tonga.....	24.0	52.9
Ethiopia.....	0.1	0.2	Tuvalu.....	55.8	123.0
Gabon.....	30.3	66.8	Vanuatu.....	29.0	63.9
Gambia.....	20.2	44.5	Wallis & Futuna.....	8.6	19.0
Ghana.....	24.7	54.5	Western Samoa.....	40.9	90.2
Guinea.....	7.7	17.0			
Guinea-Bissau.....	4.7	10.4			
Ivory Coast.....	13.7	30.2			
Kenya.....	5.9	13.0			
Lesotho.....	0.1	0.2			
Liberia.....	4.9	10.8			
			World.....	13.0	28.7

Note:--Data for most countries are tentative. Aquatic plants are included where applicable.

Source:--Food and Agriculture Organization of the United Nations (FAO) Yearbook of Fishery Statistics, 1994, vol. 78, Rome.

PRICES

The Exvessel Price table is an index of changes in the relative dockside value of fish and shellfish sold by fishing vessels. The table indexes the average annual exvessel value (price per pound) received for each species or group to the average price per pound received for the same species or group in the base year 1982.

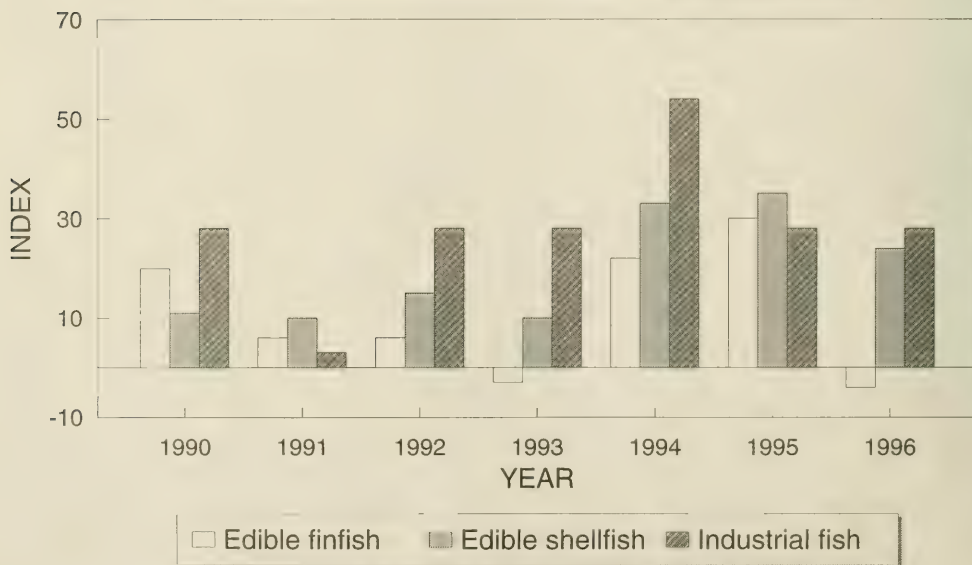
The exvessel price for each year was obtained by dividing total value for each species or group by its total quantity as reported in the U. S. commercial landings tables on pages 1 and 2. The index for each species or group was obtained by multiplying the current annual price by the

total quantity caught in 1982 (the base year). That number was then divided by the 1982 value to obtain the final index:

$$\frac{(100 \times \text{Current price} \times 1982 \text{ quantity})}{1982 \text{ Annual Value}} = \text{Index}$$

Each index number measures price changes from the 1982 reference period when the index equaled 100. A species of fish that sold for \$0.75 a pound in 1986 and a \$1.00 a pound in 1982 would have an index of 75 in 1986. In 1996, if the price of the same species increased to \$1.07, the index in 1996 would be 107.

EXVESSEL PRICE INDEX, 1990-1996 BASE YEAR 1982 = 100



INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY YEARS, 1990-96
(1982=100)

Species	1990 (1)	1991 (1)	1992 (1)	1993	1994	1995	1996
Groundfish, et al:							
Cod.....	79	106	105	105	92	77	76
Haddock.....	220	227	219	277	287	277	239
Pollock:							
Atlantic.....	223	255	297	299	365	412	311
Alaska.....	151	149	194	194	212	161	160
Flounders.....	112	97	60	61	80	96	91
Total groundfish, et al...	121	122	108	115	125	125	115
Halibut.....	159	175	91	115	171	173	199
Sea herring.....	97	86	86	63	86	126	137
Salmon:..							
Chinook.....	101	101	112	81	76	76	63
Chum.....	109	73	112	95	58	66	36
Pink.....	138	57	69	59	73	67	38
Sockeye.....	140	88	136	80	101	100	94
Coho.....	105	72	84	74	76	54	48
Total salmon.....	125	82	113	78	85	82	69
Swordfish.....	108	102	111	92	107	104	103
Tuna:							
Albacore.....	127	114	147	132	125	120	130
Bluefin.....	572	1,158	477	766	666	954	229
Skipjack.....	85	83	72	85	127	83	82
Yellowfin.....	112	116	96	112	205	283	113
Total tuna.....	112	126	97	117	181	212	105
Total edible finfish.....	120	106	106	97	122	130	96
Clams:							
Hard.....	127	142	135	113	105	113	148
Ocean quahog.....	111	124	124	128	129	136	142
Soft.....	213	192	222	233	248	250	205
Surf.....	86	84	83	88	118	118	115
Total clams.....	127	132	133	126	133	138	147
Crabs:							
Blue.....	152	131	183	201	260	284	266
Dungeness.....	162	159	124	95	145	176	143
King.....	145	99	139	127	146	104	100
Snow.....	83	53	60	78	144	237	130
Total crabs.....	131	99	124	123	166	182	144
American lobster.....	110	113	125	117	128	141	147
Oysters.....	228	219	225	183	175	179	214
Scallops:							
Bay.....	149	157	150	161	49	55	69
Calico.....	110	(2)	(2)	(2)	94	124	-
Sea.....	105	110	132	159	138	138	153
Total scallops.....	109	135	118	141	126	131	129
Shrimp:							
Gulf and South Atlantic...	79	87	86	80	110	99	88
Other.....	113	130	113	128	142	179	148
Total shrimp.....	81	89	88	82	111	103	91
Total edible shellfish.....	111	110	115	110	138	135	124
Total edible fish							
 and shellfish.....	115	108	111	104	131	133	111
Industrial fish,							
Menhaden.....	128	103	128	128	154	128	128
All fish and shellfish.....	116	108	112	105	132	132	112

(1) Revised.

(2) Confidential data.

SUMMARY OF 1996 VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR COMMERCIAL MARINE FISHERY PRODUCTS IN THE UNITED STATES (1)

Sector or type of activity	Purchase of fishery inputs Thousand Dollars	Mark-up of fishery inputs Percentage of fishery inputs	Total mark-up within sector Thousand Dollars	Value added as percent of total mark-up Percentage	Value added within sector Thousand Dollars	Value of sales by sector Thousand Dollars	Value added contribution Percentage of GNP Contribution	Offshore fleet & exported fishery products Thousand Dollars
Domestic Harvest:								
Edible.....	-	100.0	\$3,392,563	62.7	\$2,127,556	\$3,392,563	10.1	-
Industrial.....	-	100.0	\$94,150	60.9	\$57,316	\$94,150	0.3	-
Harvest not landed in U.S....	-	100.0	\$159,430	68.2	\$108,742	\$159,430	0.5	\$159,430
Imports, Unprocessed	\$3,023,888	-	-	-	-	\$3,023,888	-	-
Exports, Unprocessed	-	-	-	-	-	-	-	\$1,133,159
Primary Wholesale and Processing.....	\$5,377,442	96.6	\$5,192,619	51.6	\$2,680,359	\$10,570,061	12.8	-
Imports, Processed..	\$3,857,733	-	-	-	-	\$3,857,733	-	-
Exports, Processed..	-	-	-	-	-	-	-	\$1,911,971
Secondary Wholesale and Processing:								
Edible.....	\$12,336,541	58.3	\$7,197,211	29.1	\$2,091,283	\$19,533,751	10.0	-
Industrial.....	\$179,282	58.3	\$104,594	29.1	\$30,392	\$283,876	0.1	-
Retail Trade from Food Service.....	\$9,816,984	182.7	\$17,938,131	67.0	\$12,009,638	\$27,755,115	57.3	-
Retail Trade from Stores.....	\$9,716,767	35.3	\$3,433,547	54.4	\$1,867,345	\$13,150,314	8.9	-
TOTAL U.S. VALUE ADDED ACTIVITY:					\$20,972,632		100.0	
CONSUMERS EXPENDITURES (& WHOLESALE PURCHASES OF INDUSTRIAL PRODUCTS) FOR FISHERY PRODUCTS:						\$41,189,306		

(1) Includes industrial products and landings by U.S.-flag vessels at U.S. ports, foreign ports, and transfers to internal water processing vessels.

Note.— The table reports the contribution of commercial marine fishing to the national economy as measured by margin, value added, and sales. These measures are consistent with the Bureau of the Census definitions.

Margin or mark-up is the difference between the price paid for the product by the consumer or wholesale purchaser and the dockside or wholesale value for an equivalent weight of the product. (It is assumed that fishermen catch their fish without paying purchase price and therefore the entire dockside or exvessel price is considered margin.) Value added is a measure of the factors added to the total worth of a product at each stage of the production process. It is defined as the gross receipts of firms minus the cost of purchased goods and services needed to fabricate the product. Gross National Products (GNP) is equal to the sum of the value added of all economic entities in the economy. Value added within a sector represents that sector's contribution to GNP.

Value added includes wages, salaries, interest, depreciation, rent, taxes and profit. Consumer expenditures are the final retail value of seafood products sold through stores and food service outlets plus secondary wholesale and processing of industrial products.

EMPLOYMENT, CRAFT, AND PLANTS

133

ESTIMATED NUMBER OF COMMERCIAL FISHING VESSELS (1) AND FISHING BOATS (2) BY REGION AND STATE, 1994 - 1995

REGIONS	1994			1995		
	VESSELS	BOATS	TOTAL	VESSELS	BOATS	TOTAL
Northeast Fisheries:						
Connecticut.....	133	470	603	149	392	541
Delaware.....	29	423	452	32	555	587
Maine.....	1,818	5,477	7,295	1,798	5,439	7,237
Maryland (3).....	36	-	36	33	-	33
Massachusetts.....	820	4,500	5,320	805	4,490	5,295
New Hampshire.....	139	396	535	139	467	606
New Jersey.....	397	1,382	1,779	423	1,282	1,705
New York (4).....	696	2,905	3,601	698	2,924	3,622
Rhode Island.....	280	2,888	3,168	291	2,863	3,154
Virginia (3).....	133	-	133	122	2,138	2,260
South Atlantic and Gulf Fisheries:						
North Carolina.....	1,024	9,921	10,945	1,034	9,361	10,395
South Carolina.....	571	832	1,403	530	1,022	1,552
Georgia.....	312	652	964	305	NA	305
Florida.....	2,340	8,439	10,779	2,311	8,919	11,230
Alabama.....	426	644	1,070	378	720	1,098
Mississippi.....	535	934	1,469	438	874	1,312
Louisiana.....	2,846	12,954	15,800	2,805	12,969	15,774
Texas.....	2,200	2,378	4,578	1,902	1,969	3,871
West Coast Fisheries:						
Washington.....	1,349	748	2,097	1,176	630	1,806
Oregon.....	911	449	1,360	927	378	1,305
Alaska.....	7,387	9,145	16,532	7,141	9,373	16,514
California.....	6,247	NA	6,247	5,968	NA	5,968
Hawaii.....	3,110	NA	3,110	3,470	NA	3,470
Great Lakes Fisheries: (5)						
Illinois.....	5	-	5	5	-	5
Indiana.....	NA	NA	NA	NA	NA	NA
Michigan.....	61	74	135	61	75	136
Minnesota.....	2	27	29	2	29	31
New York.....	3	15	18	3	16	19
Ohio.....	25	25	50	33	18	51
Pennsylvania.....	5	2	7	NA	NA	NA
Wisconsin.....	91	47	138	93	40	133

(1) Vessels are documented craft greater than 5 net registered tons.

(2) Boats are craft less than 5 net registered tons.

(3) Only Federal collected data are available. Inshore data not available.

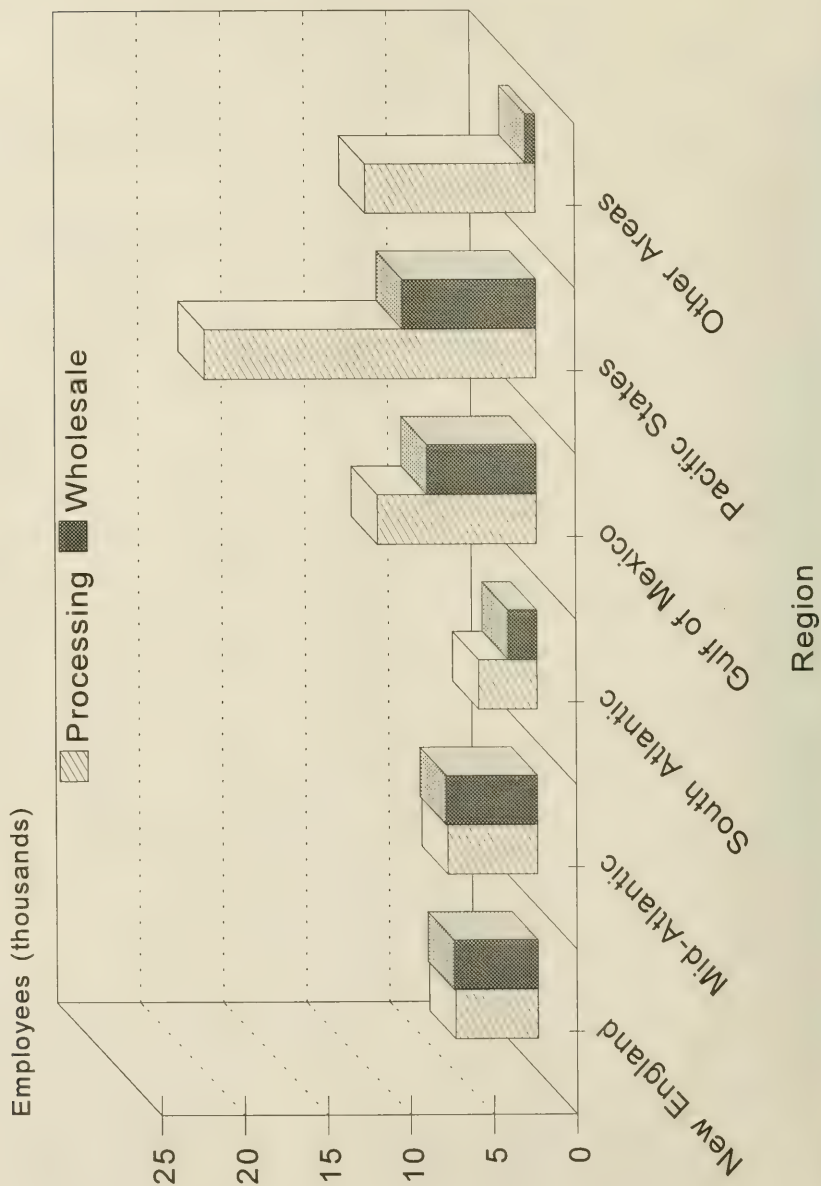
(4) Includes vessels and boats in the Great Lakes.

(5) Commercial fishing fleet sizes for the Great Lakes states represent only the number of licenses issued by the state; therefore, may not be an accurate total. Tribal data are not included in this table.

NA -- Data not available separately.

EMPLOYMENT, CRAFT, AND PLANTS

EMPLOYMENT BY REGION, 1995



PROCESSORS AND WHOLESALERS: PLANTS, AND EMPLOYMENT, 1995

State and Area	Processing				Wholesale (1)				Total	
	Plants	Employment average		Plants	Employment average		Plants	Employment average		
		Season	Year		Season	Year		Season	Year	
-----Number-----										
New England:										
Maine.....	64	1,814	1,799	195	(2)	1,529	259	(3)	3,328	
New Hampshire.....	11	336	336	30	(2)	183	41	(3)	519	
Massachusetts.....	90	2,261	2,232	279	(2)	2,583	369	(3)	4,815	
Rhode Island.....	24	512	512	84	(2)	447	108	(3)	959	
Connecticut.....	5	73	73	37	(2)	301	42	(3)	374	
Total.....	194	4,996	4,952	625	(2)	5,043	819	(3)	9,995	
Mid-Atlantic:										
New York.....	15	214	214	317	(2)	2,362	332	(3)	2,576	
New Jersey.....	16	898	898	132	(2)	847	146	(3)	1,745	
Pennsylvania.....	5	1,115	1,115	72	(2)	815	77	(3)	1,930	
Delaware.....	(4)	(4)	(4)	(4)	(2)	(4)	(4)	(3)	(4)	
District of Columbia.....	-	-	-	6	(2)	69	6	(3)	69	
Maryland.....	40	1,383	1,255	87	(2)	711	127	(3)	1,966	
Virginia.....	51	2,006	1,903	83	(2)	685	134	(3)	2,588	
Total.....	127	5,616	5,385	697	(2)	5,489	924	(3)	10,874	
South Atlantic:										
North Carolina.....	52	1,206	1,140	98	(2)	926	150	(3)	2,066	
South Carolina.....	10	1,155	1,155	30	(2)	189	40	(3)	343	
Georgia.....	11	1,131	1,131	62	(2)	611	73	(3)	1,742	
Florida, East Coast.....	35	1,143	1,075	(5)	(2)	(5)	35	(3)	1,075	
Total.....	108	3,635	3,500	190	(2)	1,726	298	(3)	5,226	
Gulf:										
Florida, West Coast.....	88	2,168	2,141	411	(2)	3,050	499	(3)	5,191	
Alabama.....	89	1,569	1,530	83	(2)	997	172	(3)	2,527	
Mississippi.....	29	934	929	34	(2)	224	63	(3)	1,153	
Louisiana.....	159	4,048	3,563	170	(2)	1,281	329	(3)	4,843	
Texas.....	25	1,408	1,386	112	(2)	1,003	137	(3)	2,389	
Total.....	390	10,127	9,549	810	(2)	6,555	1,200	(3)	16,104	
Pacific:										
Alaska.....	185	10,232	7,832	220	(2)	928	405	(3)	8,760	
Washington.....	104	5,442	4,286	194	(2)	1,889	298	(3)	6,175	
Oregon.....	44	1,553	1,462	27	(2)	457	71	(3)	1,519	
California.....	153	6,449	6,355	401	(2)	4,743	554	(3)	11,098	
Total.....	486	23,676	19,935	842	(2)	8,017	1,328	(3)	27,952	
Inland States,										
Total.....	33	1,350	1,208	260	(2)	2,579	293	(3)	3,787	
Other Areas or States: (6), Total.	32	10,385	10,233	59	(2)	583	91	(3)	10,816	
Grand Total.....	1,370	59,785	54,762	3,483	(2)	29,992	4,853	(3)	84,754	

(1) Data are based on Standard Industrial Classification 5146 as reported to the Bureau of Labor Statistics.

(2) Not reported. (3) Can not be calculated. (4) Included with Inland States. (5) Included with Florida, West Coast.

(6) Includes American Samoa, Hawaii, and Puerto Rico.

FISHERY PRODUCTS INSPECTION

FISHERY PRODUCTS AND ESTABLISHMENTS INSPECTED IN CALENDAR YEAR, 1996

Region	Edible fishery products						
	Establishment		Amount inspected				
	(1)						
	SIFE	In-Plant	Grade A	PUFI	No Mark	Lot	Total
	(2)	(3)	(4)	(4)	(5)	(6)	
	-Average number-		-----Thousand pounds-----				
Northeast.....	0	116	30,378	171,766	62,042	79,272	343,549
Southeast.....	0	133	18,262	98,940	42,717	93,878	253,797
West.....	16	70	23,631	329,335	80,856	170,191	604,012
Total, 1996.	16	319	72,271	680,041	185,615	343,340	1,201,268
Total, 1995.	12	312	75,764	365,011	188,428	383,680	1,012,884

(1) These establishments are inspected under contract and certified as meeting U.S. Department of Commerce (USDC) regulations for construction and maintenance of facilities and equipment processing techniques, and employment practices.

(2) Fish processing establishments approved for sanitation under the Sanitary Inspected Fish Establishment service (SIFE). Products are not processed under inspection.

(3) Sanitarily inspected fish establishments processing fishery products under USDC inspection. As of December 1996, 110 of these establishments were in the Hazard Analysis Critical Control Point (HACCP) Program.

(4) Products processed under USDC inspection in inspected establishments and labeled with USDC inspection mark as "Processed Under Federal Inspection" (PUFI) and/or "U.S. Grade A."

(5) Products processed under inspection in inspected establishments but bearing no USDC inspection mark.

(6) Lot inspected and marked products checked for quality and condition at the time of examination and located in processing plants, warehouses, cold storage facilities, or terminal markets anywhere in the United States.

Note:--Table may not add due to rounding.

Source:--NMFS, Office of Sustainable Fisheries, F/SF6.

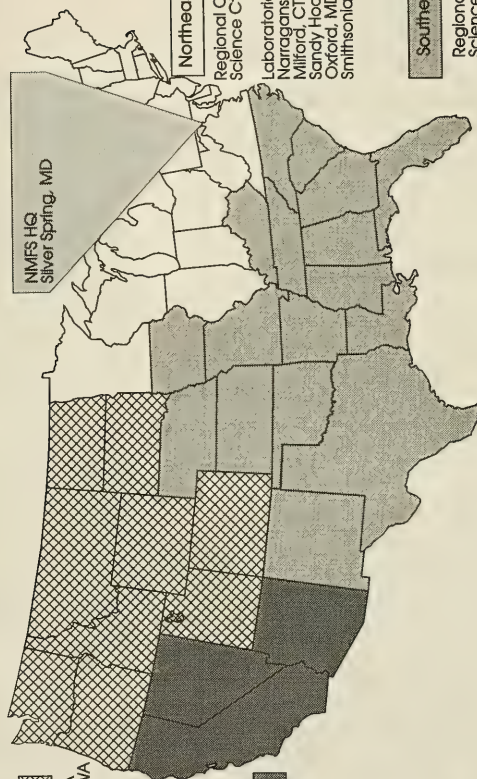


National Marine Fisheries Service Principal Facilities



Alaska Region

Regional Office: Juneau, AK
Science Center: Seattle (Sand Pt), WA
Laboratories: Auke Bay, AK
Kodiak, AK
Little Port Walter, AK



Northwest Region

Regional Office: Seattle (Sand Pt), WA
Science Center: Seattle (Montlake), WA
Laboratories: Manchester, WA
Mukilteo, WA
Pasco, WA
Point Adams, OR
Newport, OR
Portland, OR

Southwest Region

Regional Office: Long Beach, CA
Science Center: La Jolla, CA
Laboratories: Tiburon, CA
Monterey, CA
Honolulu, HI

Northeast Region

Regional Office: Gloucester, MA
Science Ctr. (& Lab): Woods Hole, MA
Laboratories:
Narragansett, RI
Milford, CT
Sandy Hook, NJ
Oxford, MD
Smithsonian, Wash. DC

Southeast Region

Regional Office: St. Petersburg, FL
Science Center (& Lab): Miami, FL
Laboratories: Beaufort, NC
Charleston, SC
Panama City, FL
Pascagoula, MS
Bay St. Louis, MS
Galveston, TX

THE MAGNUSON-STEVENS FISHERY CONSERVATION AND MANAGEMENT ACT

The Magnuson-Stevens Fishery Conservation and Management Act, Public Law 94-265 as amended (Magnuson-Stevens Act), provides for the conservation and management of fishery resources within the U.S. Exclusive Economic Zone (EEZ). It also provides for fishery management authority over continental shelf resources and anadromous species beyond the EEZ, except when they are found within a foreign nation's territorial sea or fishery conservation zone (or equivalent), to the extent that such sea or zone is recognized by the United States.

The EEZ extends from the seaward boundary of each of the coastal States (generally 3 nautical miles from shore for all but two States) to 200 nautical miles from shore. The seaward boundaries of Texas, Puerto Rico, and the Gulf coast of Florida are 3 marine leagues (9 nautical miles).

GOVERNING INTERNATIONAL FISHERY AGREEMENTS

Under the Magnuson-Stevens Act, the Secretary of State, in cooperation with the Secretary of Commerce, negotiates Governing International Fishery Agreements (GIFAs) with foreign nations requesting to fish within the EEZ. After a GIFA is signed, it is transmitted by the President to the Congress for ratification.

FOREIGN FISHING PERMITS

Title II of the Magnuson-Stevens Act governs foreign fishing in the EEZ. The process applied to foreign fishing has been described in prior issues of this publication. As U.S. fishing capacity grew, foreign participation in directed fisheries, as well as in foreign joint ventures in which U.S. vessels delivered U.S. harvested fish to permitted foreign vessels in the EEZ diminished until, in 1991, foreign vessels no longer were permitted to conduct any harvesting or processing operations in the EEZ. This marked the achievement of one of the objectives of the Magnuson-Stevens Act, that is, the development of the U.S. fishing industry to take what were in 1976 underutilized species, and the displacement of the foreign fishing effort in the EEZ by 1991.

As a result of the above, there has been no total allowable level of foreign fishing since 1991, although 35,000 mt of Atlantic mackerel and 40,000 mt of Atlantic

herring were available for joint venture fishing in 1996. However, no joint venture permits were issued in 1996 because no foreign nations elected to participate in joint venture fishing in 1996. NMFS continues to maintain certain regulations pertaining to foreign fishing, such as the foreign fishing fee schedule, should there be a situation in the future in which allowing limited foreign fishing in an underutilized fishery would be of advantage to the U.S. fishing industry.

FMPs and PMPs

Under the Magnuson-Stevens Act, eight Regional Fishery Management Councils are charged with preparing Fishery Management Plans (FMPs) for the fisheries needing management within their areas of authority. After the Councils prepare FMPs that cover domestic and foreign fishing efforts, the FMPs are submitted to the Secretary of Commerce (Secretary) for approval and implementation. The Department, through NMFS agents and the U.S. Coast Guard, is responsible for enforcing the law and regulations.

The Secretary is empowered to prepare FMPs in the Atlantic and Gulf of Mexico for highly migratory species. Where no FMP exists, Preliminary Fishery Management Plans (PMPs), which only cover foreign fishing efforts, are prepared by the Secretary for each fishery for which a foreign nation requests a permit. The Secretary is also empowered to produce an FMP for any fishery that a Council has not duly produced. In this latter case, the Secretary's FMP covers domestic and foreign fishing.

As of December 31, 1996, five Preliminary Fishery Management Plans (PMPs) were in effect, many of which have been amended since first being implemented.

Foreign Trawl Fisheries of the Northwest
Atlantic
Hake Fisheries of the Northwest
Atlantic
Bering Sea/Northeast Pacific Herring
Bering Sea Snails
Atlantic Herring of the Northwestern
Atlantic

THE MAGNUSON-STEVENS FISHERY CONSERVATION AND MANAGEMENT ACT

139

The Atlantic swordfish, Atlantic sharks, and Atlantic billfish fisheries are currently being managed by the Secretary under the Magnuson-Stevens Act and the Western Atlantic bluefin tuna fishery is managed under the Atlantic Tunas Convention Act.

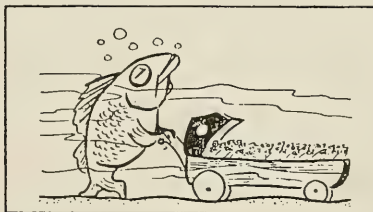
FISHERY MANAGEMENT PLANS (FMPs)

Under section 304 of the Magnuson-Stevens Act, all Council-prepared FMPs must be reviewed for approval by the Secretary. After FMPs have been approved under section 304 of the Magnuson-Stevens Act, they are implemented by Federal regulations, under section 305 of the Act. As of December 31, 1996, there are 39 FMPs in place. Of these, three are Secretarial FMPs for Atlantic highly migratory species. The 36 FMPs Council prepared are listed below. The FMPs are amended by the Councils and the amendments are submitted for approval under the same Secretarial review process as new FMPs. Most of the FMPs listed have been amended since initial implementation. Those marked with a double asterisk (**) were amended in 1996.

Northeast Multispecies (**)
American Lobster (**)
Atlantic Bluefish
Atlantic Coast Red Drum
Atlantic Mackerel, Squid, and Butterfish (**)
Atlantic Salmon
Atlantic Sea Scallops (**)
Atlantic Surf Clams and Ocean Quahogs (**)
Summer Flounder, Scup, and Black Sea Bass (**)
Gulf and South Atlantic Spiny Lobster
Caribbean Reef Fish

Gulf of Mexico Reef Fish (**)
Gulf of Mexico Corals
South Atlantic Corals
South Atlantic Golden Crab
Caribbean Coral Reef Resources
Gulf of Mexico Shrimp
Gulf of Mexico Stone Crab
Gulf of Mexico Red Drum
Coastal Migratory Pelagics
Caribbean Queen Conch
Caribbean Spiny Lobster
South Atlantic Snapper/Grouper
South Atlantic Shrimp (**)
Northern Anchovy
King and Tanner Crab
Commercial and Recreational Salmon
High Seas Salmon
Pacific Coast Groundfish
Gulf of Alaska Groundfish (**)
Bering Sea and Aleutian Islands
Groundfish (**)
Alaska Scallops (**)
Western Pacific Crustaceans (**)
Western Pacific Precious Corals
Western Pacific Bottomfish and Seamount
Groundfish
Western Pacific Pelagics

During 1996, 855 regulatory actions were processed via the Federal Register to implement FMP fishery management actions and rules for domestic fishing. This number includes hearings, meetings, and correction notices.



THE MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT

REGIONAL FISHERY MANAGEMENT COUNCILS

<u>Council</u>	<u>States</u>	<u>Telephone Number</u>	<u>Executive Director and Address</u>
NEW ENGLAND	(Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut)	617-231-0422 FAX: 565-8937	Paul J. Howard Suntaug Office Park 5 Broadway (Rt. 1) Saugus, MA 01906
MID-ATLANTIC	(New York, New Jersey, Delaware, Pennsylvania, Maryland, Virginia, and North Carolina)	302-674-2331 FAX: 674-5399	David R. Keifer Federal Bldg., Rm. 2115 300 South New St. Dover, DE 19901
SOUTH ATLANTIC	(North Carolina, South Carolina, Georgia and Florida)	803-571-4366 FAX: 769-4520	Robert K. Mahood 1 Southpark Circle Suite 306 Charleston, SC 29407
GULF OF MEXICO	(Texas, Louisiana Mississippi, Alabama, and Florida)	813-228-2815 FAX: 225-7015	Wayne E. Swingle 3018 U.S. Highway 301 North, Suite 1000 Tampa, FL 33619
CARIBBEAN	(Virginia Islands and the Commonwealth of Puerto Rico)	809-766-5926 FAX: 766-6239	Miquel A. Rolon 268 Ave. Munoz Rivera Suite 1108 San Juan, PR 00918
PACIFIC	(California, Washington, Oregon, and Idaho)	503-326-6352 FAX: 326-6831	Lawrence D. Six 2130 S.W. 5th Ave. Suite 224 Portland, OR 97201
NORTH PACIFIC	(Alaska, Washington, and Oregon)	907-271-2809 FAX: 271-2817	Clarence G. Pautzke 605 W. 4th Ave. Room 306 Anchorage, AK 99501
WESTERN PACIFIC	(Hawaii, American Samoa, Guam, and the Northern Marianas Islands)	808-522-8220 FAX: 522-8226	Kitty M. Simonds 1164 Bishop St. Room 1405 Honolulu, HI 96813

NOTE:--Massachusetts, Pennsylvania, and Virginia are "Commonwealth States."

**OPTIMUM YIELD AND OTHER SPECIFICATIONS, INCLUDING AMOUNTS AVAILABLE FOR JOINT VENTURE
PROCESSING: NORTH ATLANTIC, BY SPECIES, 1996 (1)**

Item	Loligo squid	Illex squid	Atlantic mackerel	Butter- fish	Atlantic herring
	-----Metric tons, round weight-----				
Maximum OY.....	(2) 44,000	(2) 30,000	(3)	(2) 16,000	(4) 89,000
ABC.....	(5) 30,000	(5) 30,000	(5) 1,175,500	(5) 7,200	89,220
Initial OY.....	25,000	21,000	105,500	5,900	89,220
DAH.....	25,000	21,000	(6) 105,500	5,900	89,220
DAP.....	25,000	21,000	50,000	5,900	49,220
JVP.....	0	0	35,000	0	40,000
TALFF.....	0	0	0	0	0

- (1) OY=Optimum Yield; ABC=Allowable Biological Catch; DAH=Domestic Annual Harvest; DAP=Domestic Annual Processing; JVP=Joint Venture Processing; and TALFF=Total Allowable Level of Foreign Fishing.
- (2) Maximum OY based on the Fishery Management Plan for Atlantic Mackerel, Squid and Butterfish.
- (3) Not applicable based on the Fishery Management Plan for Atlantic Mackerel, Squid and Butterfish.
- (4) Maximum OY based on the Preliminary Fishery Management Plan for Atlantic Herring.
- (5) Initial OY can increase to this amount.
- (6) Contains 20,500 metric tons projected recreational catch.

Source:--NMFS, Office of Sustainable Fisheries, F/SF; and NMFS, Northeast Region, F/NER.

GENERAL ADMINISTRATIVE INFORMATION

UNITED STATES DEPARTMENT OF COMMERCE

14th and E Streets, NW
Washington, D.C. 2023

**MAIL
ROUTING
CODE**

**TELEPHONE
NUMBER**

--	Secretary of Commerce William Daley	202-482-2112
A	Under Secretary for Oceans and Atmosphere D. James Baker	202-482-3436

NATIONAL MARINE FISHERIES SERVICE

1315 East-West Highway
Silver Spring Metro Center #3 (SSMC)
Silver Spring, MD 20910-3226

F	Assistant Administrator for Fisheries Rolland A. Schmitten	301-713-2239
	Deputy Assistant Administrator for Fisheries -- David L. Evans	301-713-2239
Fx1	Staff Office for Industry and Trade Linda Chaves	301-713-2379
Fx2	Staff Office for Intergovernmental and Recreational Fisheries Richard Schaefer	301-427-2401
Fx3	Equal Employment Opportunity Eula Brown	301-713-2252
F/EN	Office of Law Enforcement -- David McKinney	301-427-2300
F/EN1	Enforcement Operations Division	301-427-2300
F/EN11	Enforcement Programs Branch	301-427-2300
F/HC	Office of Habitat Conservation -- James Burgess	301-713-2325
F/HCx1	Chesapeake Bay Program Office	410-267-5660
F/HC1	Watershed Division	301-713-2325
F/HC2	Habitat Protection Division	301-713-2325
F/HC3	Habitat Restoration Division	301-713-0174
F/OMI	Office of Operations, Management & Information -- Charles Karnella (Acting)	301-713-2239
F/OMII	Administrative & Budget Processes Division	301-713-2245
F/OMI2	Planning and Development Division	301-713-2252
F/OMI3	Information Management Division	301-713-2372
F/PR	Office of Protected Resources -- Hilda Diaz-Soltero	301-713-2332
F/PRx1	Marine Biodiversity Team	301-713-2319
F/PR1	Permits and Documentation Division	301-713-2289
F/PR2	Marine Mammal Conservation Division	301-713-2322
F/PR3	Endangered Species Division	301-713-1401

(CONTINUED)

UNITED STATES DEPARTMENT OF COMMERCE

Silver Spring, Md. 20910-3226

<u>MAIL ROUTING CODE</u>		<u>TELEPHONE NUMBER</u>
F/SF	Office of Sustainable Fisheries -- Gary Matlock	301-713-2334
FSF1	Highly Migratory Species Division	301-713-2347
F/SF2	Financial Services Division	301-713-2390
F/SF3	Domestic Fisheries Division	301-713-2341
F/SF4	International Fisheries Division	301-713-2376
F/SF5	Regulatory Services Division	301-713-2337
F/SF6	Seafood Inspection Division	301-713-2355
F/SF61	National Seafood Laboratory	601-769-8964
F/ST	Office of Science and Technology -- William Fox	301-713-2367
F/ST1	Fisheries Statistics & Economics Division	301-713-2328
F/ST2	Research Analysis & Coordination Division	301-713-2372
F/ST21	Scientific Publications Unit	206-526-6107
F/ST3	International Science Coordination and Analysis Division	301-713-2288
LA11	Office of Congressional Affairs - Fisheries -- Peter Hill (Acting)	301-713-2263
PAF	Office of Public Affairs - Fisheries -- Scott Smullen / Gordon Helms	301-713-2370
GCF	Office of General Counsel - Fisheries -- Margaret Hayes	301-713-2231

REFERRAL DIRECTORY - SILVER SPRING, MD OFFICES

FOREIGN FEES AND PERMITS -- 301-713-2339

Joint Ventures
Regulations:
Foreign Fishing
U.S. Nationals Fishing in Russian EZ

FINANCIAL SERVICES -- 301-713-2390

Compensation for Loss of Gear
Construction, vessels (Tax Deferral Prog.)
Insurance-Vessel Seizure by Foreign Govt.
Loans and Loan Guarantees

FISHERY MANAGEMENT OPER. -- 301-713-2341

Artificial Reefs
Fishery Management Plans
Fishery Regulations

INDUSTRY SERVICES -- 301-713-2351

Consumer Education and Marketing
Exports/Imports Licenses & Trade Issues
Saltonstall-Kennedy (S-K) Grants

INTERNATIONAL FISHERIES -- 301-713-2272

Allocation (Foreign Fishing Catches)
Foreign Fisheries (General)

LAW ENFORCEMENT AND FINES -- 301-427-2300

Lacey Act (general information)
Marine Mammal Protection Act (General)
Permits and Regulations

RESOURCES INVESTIGATIONS -- 301-713-2367

Acid Rain and Pollution
Aquaculture Information
Disease of Fish
Ecology and Fish Recruitment
Fishing Methods & Resource Abundance

STATISTICAL DATA SERVICES -- 301-713-2328

Commercial Fisheries - Landings & Value
Imports and Exports
Market News Reports (General)
Operating Units (Fishermen & Vessels)
Processed Fishery Products
Recreational Fisheries

UTILIZATION RESEARCH -- 301-713-2328

Botulism and Ciguatera Poisoning
Nutrition and Quality of Fishery Products
Safety and Products Standards
Seafood Inspection and Identity

GENERAL ADMINISTRATIVE INFORMATION

NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES

<u>MAIL ROUTING CODE</u>		<u>TELEPHONE AND FAX NUMBER</u>	<u>LOCATION</u>
F/NE	Northeast Region One Blackburn Drive Gloucester, MA 01930	508-281-9300 Fax-281-9371	Gloucester, MA
F/NEC	Northeast Fisheries Science Center 166 Water St. - Rm. 312 Woods Hole, MA 02543	508-495-2233 Fax-495-2258	Woods Hole, MA
F/NEC3	Woods Hole Laboratory 166 Water St. Woods Hole, MA 02543	508-495-2233 Fax-495-2258	Woods Hole, MA
F/NEC5	Sandy Hook Laboratory Building 74, McGruder Highlands, NJ 07732	908-872-3000 FAX-872-3088	Highlands, NJ
F/NEC51	Milford Laboratory Milford, CT 06460	203-783-4200 FAX-783-4212	Milford, CT
F/NEC52	Narragansett Laboratory 28 Tarzall Drive Narragansett, RI 02882	401-782-3200 Fax-782-3201	Narragansett, RI
	Oxford Laboratory 609 S. Morris St. Oxford, MD 21654	410-226-5193 FAX-226-5925	Oxford, MD
F/NEC3	Natl. Systematics Laboratory, MRC153 10th & Constitution Ave., NW Washington, DC 20560	202-357-2550 FAX-357-1896	Washington, DC
F/SE	Southeast Region 9721 Executive Center Drive, N. St. Petersburg, FL 33702	813-570-5301 FAX-570-5300	St. Petersburg, FL
F/SEC	Southeast Fisheries Science Center, 75 Virginia Beach Dr. Miami, FL 33149	305-361-4284 FAX-361-4219	Miami, FL
F/SEC4	Miami Laboratory 75 Virginia Beach Dr. Miami, FL 33149	305-361-4225 FAX-361-4499	Miami, FL
F/SEC5	Mississippi Laboratories 3209 Frederick St., P.O. Drawer 1207 Pascagoula, MS 39567	601-762-4591 FAX-769-9200	Pascagoula, MS
F/SEC6	Panama City Laboratory 3500 Delwood Beach Rd. Panama City, FL 32408	904-234-6541 FAX-235-3559	Panama City, FL
F/SEC7	Galveston Laboratory 4700 Avenue U Galveston, TX 77551	409-766-3500 FAX-766-3508	Galveston, TX

(Continued)

NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES

<u>MAIL ROUTING CODE</u>		<u>TELEPHONE and FAX NUMBER</u>	<u>LOCATION</u>
F/SEC8	Charleston Laboratory 219 Fort Johnson Rd. Charleston, SC 29412	803-762-8500 FAX-762-8700	Charleston, SC
F/SEC9	Beaufort Laboratory 101 Pivers Island Beaufort, NC 28516	919-728-3595 FAX-728-8784	Beaufort, NC
F/NW	Northwest Region 7600 Sand Point Way, N.E. BIN C15700, Bldg. 1 Seattle, WA 98115	206-526-6150 FAX-526-6426	Seattle, WA
F/NWC	Northwest Fisheries Science Center West Bldg. - Rm. 363 2725 Montlake Boulevard, East Seattle, WA 98112	206-860-3200 FAX-860-3217	Seattle, WA
F/SW	Southwest Region 501 West Ocean Blvd., Suite 4200 Long Beach, CA 90802	562-980-4000 FAX-980-4018	Long Beach, CA
F/SWC	Southwest Fisheries Science Center 8604 La Jolla Shores Dr. P.O. Box 271 La Jolla, CA 92038	619-546-7000 FAX-546-7003	La Jolla, CA
F/SWC2	Honolulu Laboratory 2570 Dole St., P.O. Box 3830 Honolulu, HI 96812	808-943-1221 FAX-943-1290	Honolulu, HI
F/SWC3	Tiburon Laboratory 3150 Paradise Dr. Tiburon, CA 94920	415-435-3149 FAX-435-3675	Tiburon, CA
F/SWC4	Pacific Fisheries Environmental Group 1352 Lighthouse Ave. Pacific Grove, CA 93950	408-648-8515 FAX-648-8440	Pacific Grove, CA
F/AK	Alaska Region 709 West 9th Street, Room 453 P.O. Box 21668 Juneau, AK 99802	907-586-7221 FAX-586-7249	Juneau, AK
F/AKC	Alaska Fisheries Science Center, 7600 Sand Point Way, N.E. BIN C15700 - Bldg. #4 - Rm. 2149 Seattle, WA 98115	206-526-4000 FAX-526-4004	Seattle, WA
	Kodiak Investigations P.O. Box 1638 Kodiak, AK 99615	907-487-4961 FAX-487-5960	Kodiak, AK
F/AKC4	Auke Bay Laboratory 11305 Glacier Highway Auke Bay, AK 99801	907-789-6000 FAX-789-6094	Auke Bay, AK

GENERAL ADMINISTRATIVE INFORMATION

NATIONAL MARINE FISHERIES SERVICE
NATIONAL FISHERY STATISTICS OFFICES

<u>CITY</u>	<u>TELEPHONE NUMBER</u>	<u>NAME AND ADDRESS</u>
<u>NORTHEAST REGION</u>		
<u>NEW ENGLAND</u>		
Portland	207-780-3322 FAX:780-3340	Robert C. Morrill / Scott McNamara, Marine Trade Center, Suite 212, Two Portland Fish Pier Portland, ME 04101
Rockland	207-594-5969 FAX:596-7651	Peter S. Marckoon, Federal Bldg., 21 Limerock St., Rm. 207, P.O. Box 708, Rockland, ME 04841
Boston	617-223-8015 FAX:223-8526 617-223-8012 FAX:223-8526	Paul Sheahan, Statistics Office, 408 Atlantic Ave., Rm. 141, Boston, MA 02210 Jack French, Boston Market News, 408 Atlantic Ave., Rm. 141, Boston, MA 02210
(1) Gloucester	508-281-9304 FAX:281-9161	Gregory R. Power, Fishery Inf. Section, One Blackburn Dr., Gloucester, MA 01930
Gloucester	508-281-9307 FAX:281-9372	Kelly McGrath / Don Mason, Rm. 107, 1 Blackburn Dr. Gloucester, MA 01930
New Bedford	508-999-2452 FAX:990-2506	Dennis E. Main, U.S. Custom House, 37 N. Second St. New Bedford, MA 02740
Chatham	508-945-5961 FAX:945-3793	Lorraine Spenle, 29C Stage Harbor Road Chatham, MA 02633
Woods Hole	508-548-5123 FAX:548-5124	John Mahoney, Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543
Newport	401-847-3115 FAX:842-0980	Margaret Toner, Post Office Bldg., Thames St., Newport, RI 02840
Pt. Judith	401-783-7797 FAX:782-2113	Walter Anoushian, 310 Great Island Rd., Rm. 203, P.O. Box 547, Narragansett, RI 02882
<u>MIDDLE ATLANTIC</u>		
New York	212-620-3405 FAX:620-3577	Leo Gaudin / R. Santangelo, New York Market News 201 Varick Street, Rm. 731, New York, NY 10014
East Hampton	516-324-3569 FAX:324-3314	Erik Braun, 62 Newtown Lane, Suite 203, East Hampton, NY 11937
Patchogue	516-475-6988 FAX:289-8361	David McKernan, Social Security Bldg., 50 Maple Ave., P.O. Box 606, Patchogue, L.I., NY 11772
Toms River	908-349-3533 FAX:349-4319	Eugene Steady / Kathy Corbo, 26 Main St., P.O. Box 143, Toms River, NJ 08754
Cape May	609-884-2113 FAX:884-4908	Walt Makowski, 1382 Lafayette St., P.O. Box 624, Cape May, NJ 08204
<u>CHESAPEAKE</u>		
Ocean City	410-213-2761 FAX:213-7029	Ingo Fleming, 12904 Kelly Bridge Rd., P.O. Box 474, Ocean City, MD 21842
Hampton	757-723-3369 FAX:728-3947	David Ulmer / Steve Ellis, 1026 Settlers Landing Rd., Suite F, P.O. Box 436, Hampton, VA 23669
<u>SOUTH ATLANTIC</u>		
(1)Beaufort	919-728-8720 FAX:728-8772	Nelson Johnson, Beaufort Laboratory, 101 Piver Island Road, Beaufort, NC 28516
New Smyrna Beach	904-427-6562 FAX: SAME	Claudia Dennis, Coast Guard Station/Ponce P.O. Box 2025, New Smyrna Beach, FL 32170
Tequesta	407-575-4461 FAX: SAME	Howard C. Schaefer, 19100 S.E. Federal Highway Tequesta, FL 33469
(1)Miami	305-361-4468 FAX:361-4460	Guy S. Davenport, 75 Virginia Beach Dr., Miami, FL 33149
Key West	305-294-1921 FAX: SAME	Edward J. Little, Jr., Post Office & Custom House Bldg., P.O. Box 269, Key West, FL 33040

GENERAL ADMINISTRATIVE INFORMATION

147

NATIONAL MARINE FISHERIES SERVICE NATIONAL FISHERY STATISTICS OFFICES

<u>CITY</u>	<u>TELEPHONE NUMBER</u>	<u>NAME AND ADDRESS</u>
<u>GULF</u>		
Fort Myers	941-334-4364 FAX: SAME	Tom Herbert, 2000 Main St., Suite 409 Fort Myers, FL 33901
St. Petersburg	813-570-5393 FAX: 570-5300	Vacant, 9721 Executive Center Drive, St. Petersburg, FL 33702
Panama City	904-234-6541 FAX: 235-3559	Deborah Fable, 3500 Delwood Beach Rd., Panama City, FL 32407
Mobile	334-639-6493 FAX: SAME	Ted Flowers, U.S. Coast Guard - ATC P.O. Box 97, Mobile, AL 36608
Pascagoula	601-762-7402 FAX: 769-9200	Rene Labadens, Jr., 3209 Frederic St., Pascagoula Lab., P.O. Box Drawer 1207, Pascagoula, MS 39567
Chalmette	504-277-0365 FAX: 271-9150	Maggie Bourgeois / Jay Boulet, 2626 Charles Dr., Suite 201, Chalmette, LA 70043
Golden Meadow	504-632-4324 FAX: SAME	Gary J. Rousse, 290 E. 57th St. (Cutoff, LA 70345) P.O. Box 623, Golden Meadow, LA 70357
Houma	504-872-3321 FAX: SAME	Kathleen Hebert, 425 Lafayette St., Rm. 128, Houma, LA 70360
	504-872-1403 FAX: SAME	Billy Ray Tucker, 1340 W. Tunnel Blvd., Suite 222, Houma, LA 70360
Marrero	504-340-5820 FAX: SAME	Jan Simpson, 5201 Westbank Expressway, Suite 312, Marrero, LA 70072
New Iberia	318-365-1558 FAX: SAME	Linda F. Picou, 705-A West Admiral Doyle Dr. New Iberia, LA 70560
New Orleans	504-589-6151 FAX: 589-6149	Debbie Batiste, 423 Canal St., Rm. 213, New Orleans, LA 70130
Aransas Pass	512-758-0436 FAX: SAME	Roy Spears, 132 Cleveland Blvd., P.O. Box 1815, Aransas Pass, TX 78336
Brownsville/ Port Isabel	210-548-2516 FAX: SAME	Kit Doncaster / Edie Lopez, Shrimp Turning Basin, HC 70 Box 15, Brownsville, TX 78521
Freeport	409-233-4551 FAX: SAME	Thomas R. Mauermann, Texas Gulf Bank, Suite 213 P.O. Box 2533, Freeport, TX 77542
(1) Galveston	409-766-3705 FAX: 766-3543	Margot Hightower or W. Keith Roberts 4700 Avenue U, Bldg. 308, Galveston, TX 77551
Port Arthur	409-727-2271 FAX: SAME	Linda S. Trahan, Federal Bldg., Rm. 113, 2875 Jimmy Johnson Blvd., Port Arthur, TX 77640
<u>SOUTHWEST REGION</u>		
(1) Long Beach, CA or Honolulu, HI	562-980-4033 FAX: 980-4047	Patricia J. Donley, 501 West Ocean Boulevard, P.O. Box 32469, Long Beach, CA 90832
<u>NORTHWEST REGION</u>		
(1) Seattle	206-526-6128 FAX: 526-4461	John K. Bishop, 7600 Sand Point Way, NE, Bldg. 1 BIN C15700, Seattle, WA 98115
<u>ALASKA REGION</u>		
(1) Juneau	907-586-7228 FAX: 586-7465	Patay Bearden, Federal Building, 4th Floor, 709 West 9th Street, P.O. Box 21668 Juneau, AK 99802

(1) Regional or area headquarters for statistics offices.

LIBRARY INFORMATION

The NOAA Library and Information Network Catalog (NOAALINC) resides on Stilas, an integrated library system provided by the Sirsi Corporation. NOAALINC represents the automated holdings of the NOAA Central Library in Silver Spring, Maryland and 22 other NOAA libraries located around the U.S. Currently, the NOAALINC contains records for more than 200,000 items with 5,000-10,000 added each year.

NOAALINC provides several search methods to locate records of items. Users can search for keywords in titles, subject headings, authors, or series. Users can browse indexes of titles, subject headings, authors, series, or call number. Each bibliographic record shows a brief description of the item with a list of which libraries hold the item. The list of libraries will show the call number, item's specific information, and whether the item is available for circulation.

NOAALINC is available to anyone, without restriction, 24 hours a day, every day of the year. Visitors to the NOAA Central Library can access the catalog thru workstations located throughout the Library. Remote users can access the catalog thru a link from the NOAA Central Library's homepage at - <http://www.lib.noaa.gov/>.

NOAA personnel may contact the nearest NOAA Library or the NOAA Central Library and arrange to borrow materials. The general public should contact their local library to arrange for an interlibrary loan. Restrictions apply on circulation of certain materials.

For further information contact the NOAA Central Library, 1315 East-West Highway., 2nd Floor, Silver Spring, MD 20910-3282. Telephone: 301-713-2699 (Ext. 124) or E-mail: reference@nodc.noaa.gov.

PUBLICATIONS AVAILABLE FROM U.S. GOVERNMENT PRINTING OFFICE**STATISTICAL REPORTS**

003-020-00167-0 Fisheries of the United States, 1995
...\$12.00

003-020-00168-8 Fisheries of the United States, 1996
...NA

003-009-00635-0 United States Industrial Outlook
1994: Business Forecasts for 350
Industries . . . \$48.00

003-009-00650-3 United States Industrial Outlook
1995: Business Forecasts for 350
Industries . . . \$19.00

003-009-00650-3 U.S. Global Outlook (Name change)
1995: Business Forecasts for 350
Industries...\$20.00

MISCELLANEOUS REPORTS

003-009-00618-0 United States Industrial Outlook
1993: Business Forecasts for 350
Industries . . . \$37.00

S/N 703-023-
00000-2
(FB) 2D
Fishery Bulletin (Quarterly): Publishes
Original Research Papers, etc.
\$32.00 a year

For information or to purchase publications listed above (Advance Payment Required), call or write:

**Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20202
PHONE: 202-512-1800 / FAX: 512-2250**

**PUBLICATIONS AVAILABLE FROM NATIONAL MARINE FISHERIES SERVICE AND
NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)
U.S. DEPARTMENT OF COMMERCE**

SCIENTIFIC PUBLICATIONS:

Information on formal scientific publications by NMFS (such as NMFS journals and technical publications) may be obtained from the Scientific Publications Office (F/NWR1), 7600 Sand Point Way, N.E., BIN C-15700, Seattle, WA 98115.

Telephone: 206-526-6107

CURRENT FISHERY STATISTICS (CFS) SERIES:

The reports listed below are in the Current Fisheries Statistics (CFS) series. They are statistical bulletins on marine recreational fishing, commercial fishing, and on the manufacture and commerce of fishery products. For further information or to obtain a subscription to these publications, contact the office shown below:

NOAA, National Marine Fisheries Service
Fisheries Statistics Division (F/ST1)
1335 East-West Highway
Silver Spring, MD 20910--3226
Telephone: 301-713-2328

The bulletins shown below cover freezings and holdings, the production of various processed products, and the U.S. foreign trade in fishery products. If you wish a copy of the following publications, check the designated space () and return to the Office indicated above. The following are available annually:

- () FF - Frozen Fishery Products
- () MF-Processed Fishery Products

The following publication is only available quarterly.

- () Fish Meal and Oil

OTHER PUBLICATIONS:

All publications listed below may be obtained from NTIS (address and phone number listed on page 154) or the originating office (code follows in parentheses). Copies are available only as long as supply lasts.

() Endangered Species Act, Biennial Report, Status of Recovery Program, FY 1989-1991. (F/PR)

() Fishery Management Plan for Sharks of the Atlantic Ocean. (F/SF)

() Habitat Protection Activity Report. 1991 - 1993. (F/PR)

() Magnuson Fishery Conservation and Management Act, As Amended through November 28, 1990. (F/SF)

() Marine Mammal Protection Act, Annual Report. 1988-1989. (F/PR)

() Marine Mammal Protection Act, Annual Report. 1990-1991. (F/PR)

() Our Living Oceans - The First Annual Report on the Status of U.S. Living Marine Resources. (F/ST)

() Our Living Oceans - Report on The Status of U.S. Living Marine Resources, 1992 Data. (F/ST)

() Our Living Oceans - Report on The Status of U.S. Living Marine Resources, 1993 Data. (F/ST)

() Our Living Oceans - Report on The Economic Status of the U.S. Fisheries, 1996. (F/ST)

() Report on Apportionments of Membership on the Regional Fishery Management Council (RFMCs) in 1994. (F/SF)

() The Saltonstall-Kennedy Grant Program: Fisheries Development and Utilization Research and Development Grants (F/IS)

() The Saltonstall-Kennedy Grant Program: Fisheries Development and Utilization Research and Development Grants - Annotated Bibliography (F/SF)

() USDC Approved List of Fish Establishments and Products -- Semi-Annual Report. (National Seafood Inspection Laboratory, Pascagoula, MS.)

Aquaculture and Capture Fisheries: Impacts in U.S. Seafood Markets. (NTIS No. PB-88-204185/GBA)

Developments of Value Added, Margin and Expenditures for Marine Fishery Products. (NTIS No. PB-89-125108)

Marine Mammal Strandings in the United States: Proceedings of the Second Marine Mammal Stranding Workshop, 1987. 1991. Reynolds, John E., III and Daniel K. Odell, (editors). (NOAA-TR-NMFS-98). 157 p. (F/PR)

Protecting Marine Mammals: Look from a Distance... but Don't Touch, Feed or Harm in the Wild. Prepared by the Texas Sea Grant Program for the Office of Protected Resources, NMFS, 1992. 6 p. (F/PR)

Recovery Plan for the Humpback (*Megaptera novaeangliae*). Prepared by the Humpback Whale Recovery Team for the National Marine Fisheries Service, 1991. 1992. Silver Spring, Maryland. 105 p. (F/PR)

Recovery Plan for the Kemp's Ridley Sea Turtle (*Lepidochelys kempi*). Prepared by the Kemp's Ridley Recovery Team for the U.S. Fish and Wildlife Service and NMFS, 1992. Washington, DC. (F/PR)

Recovery Plan for Leatherback Turtles in the U.S. Caribbean, Atlantic, and Gulf of Mexico. National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1992. Washington, D.C. (F/PR)

Recovery Plan for the Northern Right Whale (*Eubalaena glacialis*). Prepared by the Right Whale Recovery Team for the National Marine Fisheries Service, 1991. 1992. Silver Spring, Maryland. 86 p. (F/PR)

Recovery Plan for U.S. Population of Atlantic Green Turtle. National Marine Fisheries Service, and Fish and Wildlife Service. 1991. Washington, D.C. (F/PR)

Recovery Plan for U.S. Population of Loggerhead Turtle (*Caretta caretta*). Prepared by the Loggerhead/Green Turtle Recovery Team for the U.S. Fish and Wildlife Service and NMFS. 1992. Washington, DC. (F/PR)

Recovery Plan for the Steller Sea Lion (*Eumetopias jubatus*). Prepared by the Steller Sea Lion Recovery Team for the National Marine Fisheries Service. 1992. Silver Spring, Maryland. 92 p. (F/PR)

Striped Bass Research Study Report for 1993. National Marine Fisheries Service and U.S. Fish and Wildlife Service, 1995. Silver Spring, Maryland. 34 p. (F/SF)

COMMERCIAL FISHERIES:

Fisheries of the United States is a preliminary report with historical comparisons on the Nation's fishing, fish processing, and foreign trade in fishery products. The following reports are available through NTIS.

<u>Year</u>	<u>Accession No.</u>
1966	COM-75-10662
1967	COM-75-10663
1968	COM-75-10664
1969	COM-75-10665
1970	COM-71-50081
1971	COM-75-10666
1972	COM-73-50644
1973	COM-74-50546
1974	COM-75-10862
1975	PB-253966
1976	PB-268662
1977	PB-282741
1978	PB-297083
1979	PB-80-201593
1980	PB-81-241648
1981	PB-82-215542
1982	PB-83-216473
1983	PB-84-195148
1984	PB-86-144953
1985	PB-87-143145
1986	PB-88-164132
1987	PB-88-215173
1988	PB-89-216485
1989	PB-91-129-320
1990	PB-92-174523/AS
1991	PB-93-204536/AS
1992	PB-94-156387
1993	PB-95-219192

Fisheries Statistics of the United States (Statistical Digest) is a final report on the Nation's commercial fisheries showing more detail than *Fisheries of the United States*.

<u>Year</u>	<u>Accession No.</u>
1939	COM-75-11265
1940	COM-75-11266
1941	COM-75-11267
1942	COM-75-11268
1943	COM-75-11269

<u>Year</u>	<u>Accession No.</u>
-------------	----------------------

1944	COM-75-11270
1945	COM-75-11271
1946	COM-75-11272
1947	COM-75-11273
1948	COM-75-11274
1949	COM-75-11275
1950	COM-75-11056
1951	COM-75-11053
1952	COM-75-11054
1953	COM-75-11055
1954	COM-75-11057
1955	COM-75-11058
1956	COM-75-11059
1957	COM-75-11060
1958	COM-75-11061
1959	COM-75-11062
1960	COM-75-11063
1961	COM-75-11064
1962	COM-75-11065
1963	COM-75-11066
1964	COM-75-11067
1965	COM-75-11068
1966	PB-246429
1967	PB-246430
1968	COM-72-50249
1969	COM-75-10887
1970	COM-75-10643
1971	COM-74-51227
1972	COM-75-11430
1973	PB-262058
1974	PB-277796
1975	PB-300625
1976	PB-81-163438
1977	PB-84-192038

HISTORICAL REPORTS

Historical Catch Statistics is a series of publications reporting catch of certain species in the United States for historical purposes. The following reports are available through NTIS:

Atlantic and Gulf Coast States, 1879 - 1989. Current Fisheries Statistics No. 9010 - Historical Series Nos. 5-9 Revised. Report covers total landings for major species, by state and by region. (NTIS No. PB-93-174266)

Atlantic and Gulf Coast States, 1950 - 1991. Current Fisheries Statistics No. 9210 - Historical Series No. 10-Revised. Report covers landings and value of major species, by Region. (NTIS No. PB-93-174274)

IMPORTS AND EXPORTS OF FISHERY PRODUCTS.
Annual Summary

<u>Year</u>	<u>Accession No.</u>
1982	PB-92-218635
1983	PB-92-218643
1984	PB-92-214972
1985	PB-92-222280
1986	PB-92-228196
1987	PB-92-228055
1988	PB-92-222272
1989	PB-92-222264
1990	PB-92-222256
1991	PB-92-221803
1992	PB-95-219499
1993	PB-95-219481
1994	PB-95-219507

MARINE RECREATIONAL FISHING

1970 Salt-Water Angling Survey, PB-265416.

Determination of the Number of Commercial and Non-Commercial Recreational Boats in the United States, Their Use, and Selected Characteristics, COM-74-11186.

Participation in Marine Fishing:

Northeastern United States, 1973-74, COM-75-10655.
 Southeastern United States, 1974, PB-273160.

MARINE RECREATIONAL FISHERY STATISTICS
SURVEY:

Atlantic and Gulf Coasts:

<u>Year</u>	<u>Accession No.</u>
1979-80	PB-84-199652
1979 (Revised)-1980	PB-89-102552
1981-1982	PB-89-102560

PUBLICATIONS

Atlantic and Gulf Coasts - Continued:

<u>Year</u>	<u>Accession No.</u>
1983-1984	PB-89-102628
1985	PB-89-102669
1986	PB-89-102701
1987-1989	PB-92-174820
1990-1991	(F/ST1)

Pacific Coast:

1981-1982	PB-89-102925/AS
1983-1984	PB-89-102933/AS
1985	PB-89-102941/AS
1986	PB-89-102958/AS
1987-1989	(F/ST1)

PROCESSED FISHERY PRODUCTS --
Annual Summary

<u>Year</u>	<u>Accession No.</u>
1979	PB-89-215248/AS
1980	PB-89-215255/AS
1981	PB-89-215263/AS
1982	PB-89-215289/AS
1983	PB-89-215271/AS
1984	PB-89-215297/AS
1985	PB-89-215305/AS
1986	PB-89-215313/AS
1987	PB-92-172956
1988	PB-92-204528/AS

STATE LANDINGS

Maine: 1946-76, PB-271-296; 1977-79, PB-128258.

Massachusetts: 1943-76, PB-275866; 1977-79, PB-81-143182.

Rhode Island: 1954-77; PB-287627; 1978-79, PB-81-157158.

New York: 1954-76, PB-275449; 1977-79, PB-81-134546.

New Jersey: 1952-76, PB-275696; 1977-79, PB-81-159048.

Maryland: 1960-76, PB-300636; 1977-79, PB-81-159003.

Virginia: 1960-76, PB-300637; 1977-79, PB-82-151960.

North Carolina: 1955-76, PB-288928; 1977-79, PB-82-151978.

South Carolina: 1957-76, PB-289405; 1977-79, PB-81-163198.

Georgia: 1956-76, PB-289814; 1977-79, PB-81-157166.

Florida: 1950-76, PB-292068.

Alabama: 1950-77, PB-80-121262; 1978, PB-82-168071.

Mississippi: 1951-77, PB-80-121270; 1978, PB-82-169079.

Louisiana: 1957-77, PB-300583; 1978, PB-82-168063.

Texas: 1949-77, PB-300603; 1978-79, PB-82-169004.

Shrimp Landings: 1956-76, PB-80-124696; 1978-79, PB-82-156183.

Gulf Coast Shrimp Data: 1958-76, PB-80-126899; 1978-79, PB-82-170390.

INTERNATIONAL REPORTS

In 1993, the Office of International Affairs, NMFS, prepared a six-volume study which analyzes past, present, and future trends in the world's distant-water fishing fleets. The subjects covered include catch, fishing areas, vessel construction and imports, flag-of-convenience registration, international agreements, and joint ventures. These studies can be purchased through the National Technical Information Service (NTIS) using the following titles and reference numbers.

World fishing Fleets: An analysis of Distance-water Fleet Operations. Complete six-volume set. (NTIS No. PB-94-140811/GBA).

Volume I: Executive Summary. Overview of world distance-water fishing fleets and summarizes regional trends. 54 p. (NTIS No. PB-94-140829/GBA).

Volume II: Africa. Compilation of information by U.S. Embassies on fleet operations in selected African countries. 51 p. (NTIS No. PB-94-140837/GBA).

Volume III: Asia. Overview of Asian fleets and individual studies of China, Japan, Republic of Korea, and Taiwan fleets. 144 p. (NTIS No. PB-94-140845/GBA).

Volume IV: Latin America. Overview of Caribbean Central America, South America, and individual reports on the Latin American fleets engaged in distant-water fisheries. 513 p. (NTIS No. PB-94-140852/GBA).

Volume V: Baltic States, Commonwealth of Independent States, and Eastern Europe. Overview of each of these three blocs and 10 individual country studies including Russia, Poland, and Ukraine. 286 p. (NTIS No. PB-94-140860/GBA).

Volume VI: Western Europe and Canada. Overview sections for Europe Community and non-EC countries and individual country studies for all West European fishing nations and Canada. 362 p. (NTIS No. PB-94-140878/GBA).

OTHER REPORTS FROM THE OFFICE OF INTERNATIONAL FISHERIES (FIA)

Available Foreign Fisheries Market Reports, 1976-1983. These lists detail available reports covering 59 countries and regions. (NTIS No. ITA-83-02-010/GBA).

Available Foreign Fishery Reports, 1984-1992. Covering the same information as the 1976-1983 report. (F/A2).

World Salmon Culture (NTIS No. PB-93-134617/GBA).

World Shrimp Culture (NTIS No. PB-93-134625/GBA).

NORTHEAST REGION

A History of Benthic Research in the NMFS Northeast Fisheries Science Center. Steimle, F.W., J.M. Burnett, and R.B. Theroux. 1995. *Mar. Fish. Rev.* 57(2):1-13. (F/NEC).

History of Salmon Fisheries and Management in the North Atlantic. Friedland, K.D. 1994. *ICES Coop. Res. Rep.* 197:6-22. (F/NEC).

Marine Mammal Studies Supported by the Northeast Fisheries Science Center during 1980-89. Waring, G.T.,

J.M. Quintal, and T.D. Smith. 1994. *NOAA Tech. Memo. NMFS F/NEC-103.* (NTIS No. PB-95-108213).

Ownership of Renewable Ocean Resources. Edwards, S.F. 1994. *Mar. Resour. Econ.* 9:253-273. (F/NEC).

Scaling Fisheries: The Science of Measuring the Effects of Fishing, 1855-1955. Smith, T.D. 1994. Cambridge, England: Cambridge University Press. (F/NEC).

Second Survey of Fish Collections in the United States and Canada. Poss, S.G., and B.B. Collette. 1995. *Copeia* 1995(1):48-70. (F/NEC).

Status of Fishery Resources off the Northeastern United States for 1995. Conservation and Utilization Division, Northeast Fisheries Science Center. 1995. *NOAA Tech. Memo. NMFS NE-108.* (NTIS No. PB-95-263414).

SOUTHEAST REGION:

Habitat Protection Accomplishments of the National Marine Fisheries Service - Fiscal Year 1996. Habitat Conservation Division, Southeast Regional Office. 1996. 88 p.+Appen. (F/SER).

National Marine Fisheries Service Guidelines for Proposed Wetland Alteration in the Southeastern United States. Habitat Conservation Division. Southeast Regional Office. March 1992. 17 p. (F/SER).

Summary of Federal Aid Grants and Cooperative Agreements Programs, National Marine Fisheries Service, Southeast Region, 1986-1995. Sutter, Frederick C. 1985. 112p. (F/SER)

SOUTHWEST REGION:

A Global Perspective on Artificial Reefs and Fish Aggregating Devices. In *Indo-Pacific Fishery Commission (IPFC), Proceedings of the Symposium on Artificial Reefs and Fish Aggregating Devices as Tools for the Management and Enhancement of Marine Fishery Resources, Colombo, Sri Lanka, 14-17 May 1990.* Regional Office for Asia and the Pacific (RAPA), Food and Agriculture Organization of the United States, Bangkok. (F/SWC).

Biodiversity and the Sustainability of Marine Fisheries. Boehlert, G. W. 1996. *Oceanography* 9(1): 28-35. (F/SWC).

Hawaii Longline Vessel Economics. Hamilton, M. S., R. E. Curtis, M. D. Travis. 1996. *Mar. Res. Econ.* 11:137-140. (F/SWC)

Hawaiian Monk Seals: Past, Present and Future. Brownell, R. L., Jr. 1996. *IBI Reports* 6:35-41. (F/SWC)

The Hawaiian Monk Seal in the Northwestern Hawaiian Islands, 1993. Johanos, T. C., and T. J. Ragen (eds.). 1996. 141 p. (NOAA-TM-NMFS-SWFSC-227). (F/SWC)

The Hawaiian Monk Seal in the Northwestern Hawaiian Islands, 1994. Johanos, T. C., and T. J. Ragen. 1996. 111 p. (NOAA-TM-NMFS-SWFSC-229). (F/SWC)

The Japanese Market for U.S. Tuna Products. Sonu, S. C. 1994. (NOAA-TM-NMFS-SWR-029). 64 p. (S/SWR).

The Japanese Sea Urchin Market. Sonu, S.C. 1995. (NOAA-TM-NMFS-SWR-030). 33 p. (F/SWR).

The Japanese Sablefish Market. Sonu, S.C. 1996. (NOAA-TM-NMFS-SWR-031). 52p. (F/SWR).

Japan's Mackerel Market. Sonu, S.C., September 1992. (NOAA-TM-NMFS-SWR-027). (F/SWR).

Private Property Rights and Crises in World Fisheries: Turning the Tide? Grafton, R. Q., D. Squires, and J. E. Kirkley. 1996. *Contemp. Econ. Policy* 14:91-99. (F/SWC)

NORTHWEST REGION:

Status Review of Pink Salmon from Washington, Oregon, and California. Hard, J.J., R.G. Kope, W.S. Grant, F.W. Waknitz, L.T. Parker, and R.S. Waples. 1996. (NOAA-TM-NMFS-NWFSC-25) 131 p. (NTIS No. PB96-162607)

Status Review of West Coast Steelhead from Washington, Idaho, Oregon, and California. Busby, P.J., T.C. Wainwright, G.J. Bryant, L. Lierheimer, R.S. Waples, F.W. Waknitz, and I.V. Lagomarsino. 1996. (NOAA-TM-NMFS-NWFSC-27) 261 p. (NTIS No. PB96-210166).

ALASKA REGION:

Fur Seal Investigations, 1994. Sinclair, E.H. (editor). 1996. (NOAA-TM-AFSC-69). 144 p. (NTIS No. PB97-129456).

Oregon, Washington, and Alaska exports of edible fishery products, 1994. Kinoshita, R. K., and J. M. Terry. 1996. (NOAA-TM-AFSC-63). 49 p. (NTIS No. PB96-183553).

Oregon, Washington, and Alaska exports of edible fishery products, 1995. Kinoshita, R. K., and J. M. Terry. 1996. (NOAA-TM-AFSC-66). 48 p. (NTIS No. PB96-214663).

Status of Pacific Salmon and Steelhead Escapements in Southern Alaska. Baker, T. T., A. C. Wertheimer, R. D. Burkett, R. Dunlap, D. M. Eggers, E. I. Fritts, A. J. Gharrett, R. A. Holmes, and R. L. Wilmut. 1996. *Fisheries* 21(10): 6-18. (F/AKC).

The Threatened Status of Steller Sea Lions, *Eumetopias jubatus*, Under the Endangered Species Act: Effects on Alaska Groundfish Fisheries Management. Fritz, L.W., R. C. Ferrero, and R.J. Berg. 1995. *Mar. Fish. Rev.* 57(2):14-27. (F/AKC).

=====

To purchase the preceding reports listed with NTIS, call or write:

NTIS -- ATTN: Order Desk
5285 Port Royal Road
Springfield, VA 2216

PHONE: 703-487-4650 / FAX: 321-8547

**NATIONAL MARINE FISHERIES SERVICE
FISHERIES MARKET NEWS****BULLETIN BOARDS**

Several National Marine Fisheries Service offices provide public access to electronic bulletin board services operating 24-hours a day to furnish the fishing industry with current information. Listed below are necessary facts needed to access these bulletin boards via a personal computer.

Alaska Region:

The Alaska Regional service is available by dialing **907-586-7259** at no parity, 8 data bits, 1 stop bit, full duplex. The bulletin board operates on a 80486 standalone PC with 4 MB of memory and four 14,400 baud modems. A menu-driven system directs callers to areas and manages viewing of files, downloading, and in certain cases, uploading files. A message utility handles transfer of mail between users and to the sysop. Information is organized in ANSI format into categories consisting of: news releases; regulations; current catch statistics; allocations / seasons / closure histories; PacFIN data; and miscellaneous information. Catch statistics are updated weekly, other files are added as needed. For additional information contact Galen Tromble, 907-586-7228, at the Alaska Regional Office.

Northwest Region:

The Northwest Regional Office service is available by dialing **206-526-6405** at 2400 baud, no parity, 8 data bits, 1 stop bit, full duplex. (The region plans to upgrade baud rate to 28.8 by January 1995.) Information is presented through a system of menus and displayed on-line. A variety of reports are included: current groundfish and salmon regulations; current entry program, limited entry groundfish permits; foreign trade news and data files; HACCP FDA information; Saltonstall / Kennedy Program; view your account; testing system; NMFS news and phone numbers; list of files or transfers; and miscellaneous information. For additional information contact John Bishop, 206-526-6119, at the Northwest Regional Office.

Southwest Region:

The Southwest Regional Office service is available by dialing **310-980-4059** at 2400 baud, no parity, 8 data bits, 1 stop bit, full duplex. Information is presented in the form of bulletins organized through a system of menus and displayed on-line. Announcements include Federal Register notices of seasons, trip limits, and quotas for groundfish, salmon, and coastal pelagic fisheries. Trade and industry reports are available for fishery product imports into Southern California / Arizona / Hawaii, canned tuna industry updates and status of canned tuna import quotas, catch reports and the status of quotas or allocations for various California fisheries, a calendar of public meetings and events, Pacific Council News and information concerning protected species and marine recreational fisheries. For additional information contact Dan Viele, 310-980-4039, at the Southwest Regional Office.

SERVICES

NATIONAL MARINE FISHERIES SERVICE FISHERIES MARKET NEWS

FAX-ON-DEMAND SYSTEM

The National Marine Fisheries Service (NMFS) has collected market information at principal U.S. ports for 60 years. In an effort to provide a continuing high level of service to the seafood community this information is now available through the NMFS Fax-on-Demand Service. Up-to-date information on various landings data, wholesale values, foreign trade, cold storage holdings, trade leads, and Japanese market are now just a phone call away. The cost to you is a phone call, the service is free. Please feel free in helping NMFS spread the word about the Fax-on-Demand Service.

INSTRUCTIONS

1. You **must** place your call from a fax machine. At any fax machine, pick up handset (or use speaker phone capability, if so equipped) and using the fax machine's numeric keypad, dial the NMFS Fax Management System phone number:

301 - 713 - 1415

2. A human voice will greet you and welcome you to the NMFS Fax Management System and will immediately ask you to enter your **Fax Mailbox Number, followed by the pound (#) sign.** Respond by entering the mailbox number for Fisheries Market News:

200 #

3. After you are welcomed to the Fisheries Market News Fax Service you will be guided by a series of human voice prompts. First you are given the opportunity to **enter a document number (like those found on the document listing), followed by the pound (#) sign:**

**Examples: For daily New York Fulton Market Fresh Prices, enter 21#
For most recent Cold Storage Report enter 71#**

For a list of available documents (Menu of Document Choices), enter 1#

4. Follow remaining voice prompts for confirmation of selection(s) and entering additional document numbers. After you have selected the documents you want, you will be prompted to press the pound (#) key to proceed.
5. You will now be asked to press the **START or SEND** key on fax machine. Wait until you hear the typical fax tone indicating a good connection and hang up the handset.

Please call **(301-713-2328)** for further information or if you have any questions or problems.

NATIONAL MARINE FISHERIES SERVICE FISHERIES MARKET NEWS

FAX-ON-DEMAND MENU CHOICES -- MAILBOX #2100
FAX: (301) 713-1415

DOCUMENT NUMBER	REPORT	UPDATE SCHEDULE
1	Menu Choices	
2	Commonly Used Abbreviations	
5*	Trade Leads	Friday
	NEW YORK: Leo Gaudin (212) 620-3405	
21*	Fulton Market Fresh Prices	Daily
22*	New York Frozen Prices	Friday
	BOSTON: Jack French (617) 223-8018	
30	Boston Lobster Prices	Daily (exc. Wed)
31*	New England Auction	Daily
32*	Boston Frozen Market Prices	Wednesday
33	New England Auction Summary	Friday
34	New England Cold Storage	Friday
	NEW ORLEANS: Maggie Bourgeois (504) 589-6151	
41	Gulf Shrimp Landings by Area and Species	Monday
42	Ex-Vessel Gulf Fresh Shrimp Prices and Landings	Monday
43	Gulf Finfish and Shellfish Landings	Monday
44*	Fish Meal and Oil Prices	Thursday
45*	Shrimp Statistics	Monthly
	LONG BEACH: Patricia Donley (310) 980-4033	
52	San Pedro, CA Market Prices	Friday
53	Canned Tuna Import Quota Update	Friday
55	United States Tuna Cannery Receipts	Monthly
	SEATTLE: John Bishop (206) 526-6119	
61	Wholesale Canned Salmon Prices (West Coast)	Tuesday
62*	Wholesale Shellfish Prices (West Coast)	Tuesday
63	Preliminary Oregon Landings	Tuesday
64	Halibut & Sablefish Total IFQ Landings	Weekly
65	Groundfish: Gulf of Alaska - Preliminary Catch	Weekly
66	Bering Sea & Aleutians - Preliminary Catch	Weekly
67	Oregon Landings & Exvessel Price	Monthly
68	Washington Landngs & Exvessel Price	Monthly
	NMFS HEADQUARTERS: William Uttley (301) 713-2328	
71*	National Cold Storage	Monthly
72	West Coast Cold Storage	Monthly
73	Foreign Trade of Selected Products	Monthly
74	Imports of Shrimp	Monthly
75	Imports of Frozen Fish Blocks	Monthly
76	Fish Meal and Oil Production	Quarterly
	JAPANESE DATA: Long Beach - Sunee C. Sonu (310) 980-4038	
81	Japanese Shrimp Imports	Monthly
82	Japanese Fishery Imports	Monthly
83	Japanese Fishery Exports	Monthly
84	Japanese Cold Storage Holdings	Monthly
85	Tokyo Wholesale Shrimp Prices	Bi-weekly
86	Tokyo Wholesale Prices	Bi-weekly
87	Fish Landings and Average Ex-vessel Prices	Monthly
88	Sales Volume and Average Wholesale Prices	Monthly

UPDATE SCHEDULES: 3:00 pm ET.

***NOTE:**-- Accessible via (internet) - <http://remora.ssp.nmfs.gov/>

NATIONAL MARINE FISHERIES SERVICE FISHERIES MARKET NEWS

HOME PAGES

The National Marine Fisheries Service provides information on programs and data available to the public and fishing industry via home page. Please use the following address for NMFS' home page - <http://kingfish.ssp.nmfs.gov/home-page.html> through a personal computer. If you wish to access individual office home pages the addresses and a brief description follows:

Fisheries Statistics - <http://remora.ssp.nmfs.gov/>. Descriptions of commercial and recreational fisheries statistics data collection programs. Access to commercial monthly landings data bases, Marine Recreational Fisheries Statistics Survey (MRFSS) data, cold storage, Market News Reports, processed products data, and trade data base.

Inspection Program - <http://kingfish.ssp.nmfs.gov/iss/issue.html>. Provides information on the National Voluntary Seafood Inspection Program, list of approved fish establishments and products, fees and charges, and policies for advertising services and marks.

Saltonstall-Kennedy Grant Program - <http://www.nmfs.gov/sfweb/skhome.html>. Description of the Saltonstall-Kennedy (S-K) Program, the most recent solicitation for proposals, application forms and instructions, FAQs, and Regional contacts for the S-K Program, as well as the latest update to the S-K Annotated Bibliography of completed projects.

Protected Resources - <http://kingfish.ssp.nmfs.gov/>. Contains recovery efforts for species considered endangered or threatened; depleted species of marine mammals; and a comprehensive list of other Internet resources pertaining to protection programs and other issues. Information on Endangered Species Act and Marine Mammal Protection Act.

Northeast Region - <http://www.nero.nmfs.gov/doc/nero.html>. Describes the mission and responsibilities of the Regional Office Staffs and Divisions. Provides information on fisheries regulations, quota reports for summer flounder, and links to other NOAA sites.

Northeast Scientific Center - <http://www.nefsc.nmfs.gov>. Provides press releases, lab descriptions, history of fisheries in the New England Region (photos, timeline, and outline of NE groundfish history). Includes fish facts (questions and answers) and status of the stocks by species for the Region.

Southeast Region - <http://caldera.sero.nmfs.gov/>. Provides information on regional Federal activities including: fisheries regulations, vessel and dealer permits, fishery management plan implementation/quotas, marine mammals and endangered species management and protection, habitat protection and restoration activities, and federal aid programs for grants and cooperative agreements.

Southeast Fisheries Science Center - <http://www.sefsc.noaa.gov/>. Describes the mission of the Center in support of NMFS including laboratories dedicated to research covering North Carolina--Texas and the Caribbean. Provides research data to support the programs which include large marine ecosystem, collecting and reporting statistical/economic data, fishery resource conservation, protection of marine mammals and endangered species, and impact analysis / environmental assessments.

**NATIONAL MARINE FISHERIES SERVICE
FISHERIES MARKET NEWS****HOME PAGES**

Alaska Region - <http://wwwfak.afsc.noaa.gov/akr-home.htm>. Provides information on in season state of groundfish, catch statistics, new releases, regulations, maps, and tables. Sablefish and halibut quota program, catch data and appeal cases. Information on Marine Mammal Authorization Program.

Alaska Fisheries Science Center - <http://www.afsc.noaa.gov/>. Describes the mission of the Center and the organization and purpose of its laboratories, divisions, and programs dedicated to Federal fisheries research in the coastal oceans off Alaska and the West Coast of the United States and marine mammal research in the Antarctic, Arctic, Alaska and California current ecosystems.

Northwest Fisheries Science Center - <http://research.nwfsc.noaa.gov/nwfsc-homepage.html>. Describes Center's research programs by division, including status assessments and recovery of endangered salmon species, chemical pollutants in coastal ecosystems throughout the U.S., and monitoring and assessments of west coast groundfish. Also includes staff directory, current Center news, publications and library resource information.

Southwest Region - <http://swr.ucsd.edu>. Described the mission and responsibilities of the regional office. Provides information on fisheries statistics, policies, and links with other pertinent sites.

Southwest Fisheries Science Center - <http://swfsc.ucsd.edu>. Descriptions of programs, laboratories, geographic scope, center organization, research vessels, upper level scientific/management staffs, publications, newsletters (tuna and billfish), and mission of the Center. Information on types of research being conducted on fishes, marine mammal, sea turtles, habitat and marine ecosystems. Also, updated NOAA's Resource Guide for Teachers of Marine Science is available for download.

=====

NOAA Public Affairs - <http://www.noaa.gov/public-affairs>. All NOAA and NMFS related Press Releases and links to other NOAA material available to the public. If you would like these releases through electronic mail rather than fax, send e-mail to jslaff@hq.noaa.gov.

SEA GRANT MARINE ADVISORY SERVICE

The Office of Sea Grant is a major program element of the National Oceanic and Atmospheric Administration. The National Sea Grant College Program is funded jointly by the Federal Government and colleges or universities. Sea Grant's Marine Advisory Service offers a broad range of information to recreational and commercial fishermen, fish processors, and others concerning the Nation's fisheries. The following program leaders, listed alphabetically by State, can provide information on Sea Grant activities:

William Hosking, Coordinator
Alabama Sea Grant Extension
Auburn University Marine
Extension & Research Center
4170 Commander's Drive
Mobile, AL 36615
(334) 438-5690 FAX: 438-5670

Donald E. Kramer, Leader
Alaska Sea Grant College Program
Marine Advisory Program
2221 East Northern Lights #110
Anchorage, AK 99508
(907) 274-9691 FAX: 277-5242

Christopher M. DeWees,
Coordinator
Sea Grant Extension Program
Department of Wildlife
and Fisheries
Univ. of CA - Davis
Davis, CA 95616
(916) 752-1497 FAX: 752-4154

Susan Yoder, MAS Leader
USC Sea Grant Program
Hancock Institute of Marine
Studies, University Park
Los Angeles, CA 90089
(213) 740-1964 FAX: 740-5936

Nancy Balcom, Interim MAS Leader
Sea Grant Marine Advisory
Program, Univ. of Connecticut
1084 Shennecossett Road
Groton, CT 06340
(860) 405-9107 FAX: 485-9109

Kent Price, MAS Leader
Delaware Sea Grant College Prog.
Marine Advisory Service
700 Pilottown Road
Lewes, DE 19958
(302) 645-4256 FAX: 645-4007

Marion L. Clarke, Leader
Florida Sea Grant Extension
Univ. of FL - Bldg. 803
P.O. Box 110405
Gainesville, FL 32611
(352) 392-1837 FAX: 392-5113

Keith Gates, MAS Leader
Marine Extension Service
715 Bay Street
Brunswick, GA 31520
(912) 264-7268 FAX: 264-7312

Bruce J. Miller, Assoc. Dir.
Director of Extension/Pacific
Programs, Sea Grant Extension
Service, Univ. of HA
1000 Pope Road, MSB 227
Honolulu, HI 96822
(808) 956-8645 FAX: 956-2858

Brian Miller, MAS Leader
Forestry & Natural Resources
Purdue Univ. - Forestry Bldg.
West Lafayette, IN 47907
(317) 494-3586 FAX: 494-0409

Michael Liffman, Assist. Dir.
Louisiana Sea Grant College
Program, LA State Univ.
136 Wetland Resources Building
Baton Rouge, LA 70803
(504) 388-6290 FAX: 388-6331

Ron Beard, Interim MAS Leader
ME/NH Sea Grant College Program
21 Coburn Hall, Univ. of ME
Orono, ME 04469
(207) 581-1440 FAX: 581-1423

Douglas Lipton, MAS Leader
Cooperative Extension Service
2218B Symons Hall - Univ. of MD
College Park, MD 20742
(301) 405-1280 FAX: 314-9032

Cliff Goudey, MAS Leader
MIT Sea Grant College Program
E38-324/Kendall Square
292 Main Street
Cambridge, MA 02139
(617) 253-7079 FAX: 258-5730

Dale Leavitt, MAS Leader
WHOI Sea Grant Program
Mail Stop #2, Coastal Research Lab.
Woods Hole Oceanographic
Institute
Woods Hole, MA 02543
(508) 289-2997 FAX: 457-2172

John Schwartz, MAS Leader
Michigan Sea Grant College Prog.
Michigan State University
334 Natural Resource Building
East Lansing, MI 48824
(517) 355-9637 FAX: 353-6496

Jeffery Gunderson, MAS Leader
Minnesota Sea Grant
Univ. of MN - Duluth
208 Washburn Hall
Duluth, MN 55812
(218) 726-8715 FAX: 726-6556

David C. Veal, MAS Leader
MS Sea Grant Advisory Service
Coastal Research/Extension Center
2710 Beach Blvd., Suite 1-E
Biloxi, MS 39531
(601) 338-4710 FAX: 388-1375

SEA GRANT MARINE ADVISORY SERVICE

Brian E. Doyle, MAS Leader
Sea Grant College Program
Univ. of NH - Kingman Farm
Durham, NH 03824
(603) 749-1565 FAX: 743-3997

Alex Wypyszinski, MAS Leader
New Jersey Sea Grant College
Program, Cook College
P.O. Box 231
New Brunswick, NJ 08903
(908) 932-9636 ext: 221
FAX: (908) 932-6557

Dale R. Baker, MAS Leader
New York Sea Grant
Cornell University
340 Roberts Hall
Ithaca, NY 14853
(607) 255-2832 FAX: 255-2812

Leroy J. Hushak, Assoc. Dir.
and MAS Leader
Ohio State University
2120 Fyffe Rd.
Columbus, OH 43210
(614) 292-3548 FAX: 292-7710

James Murray, MAS Leader
NC State Univ.
105 1911 Building
Box 8605
Raleigh, NC 27695
(919) 515-2454 FAX 515-7095

Jay Rasmussen, Program Leader
Oregon Extension Sea Grant
Hatfield Marine Science Center
2030 S. Marine Science Drive
Newport, OR 97365
(541) 867-0368 FAX: 867-0369

Javier Velez-Arocho, MAS Leader
Sea Grant College Program
Univ. of Puerto Rico

P.O. Box 5000
Mayaguez, PR 00681
(787) 832-8045 FAX: 265-2880

Kathy Castro, Coordinator
Rhode Island Sea Grant MAS
Graduate School of Oceanography
University of RI
South Ferry Road
Narragansett, RI 02882
(401) 874-6800 FAX: 789-8340

Bob Bacon, MAS Leader
South Carolina Sea Grant
Marine Extension Program
287 Meeting Street
Charleston, SC 29401
(803) 727-2075 FAX: 727-2080

Mike Hightower,
Program Coordinator
Texas Marine Advisory Service
Sea Grant College Program
1716 Briarcrest Drive, Suite 702
Bryan, TX 77802
(409) 845-7524 FAX: 845-7525

Wm. D. DuPaul, MAP Coordinator
Virginia Sea Grant College Prog.
Marine Advisory Service
Virginia Inst. of Marine Science
Gloucester Point, VA 23062
(804) 642-7164 FAX: 642-7161

Michael S. Spranger, MAS Leader
Washington Sea Grant HG-30
University of WA
3716 Brooklyn Avenue, N.E.
Seattle, WA 98105
(206) 685-9291 FAX: 685-0380

Allen H. Miller, MAS Leader
Wisconsin Sea Grant Institute
Univ. of WI., Madison Campus
1800 University Avenue
Madison, WI 53705
(608) 262-0644 FAX: 263-2063

National Sea Grant Depository
(Clearing House for all Sea Grant Publications)

Pell Library
University of Rhode Island
Bay Campus
Narragansett, RI 02882
PHONE: 401-874-6114
FAX: 874-6160

TRADE AND INDUSTRY SERVICES

The National Marine Fisheries Service conducts activities designed to improve the competitiveness of the U.S. fishing industry in domestic and world markets and to enhance the safety and quality of U.S. seafood products. Programs include: (1) international trade negotiations; (2) financial assistance on the form of loan guarantees, insurance programs, a capital construction fund, and research and development grants; (3) administration of fishery product inspection and grading, and product standard programs; (4) research and development on product safety, quality, and use; and (5) advise to the U.S. Department of Agriculture on the use of its Surplus Commodity Program and export financing programs for fishery products.

HEADQUARTERS:

Director, Industry and Trade
Program
1315 East-West Highway
Silver Spring, MD 20910
PHONE: (301) 713-2379
FAX: (301) 713-2384

Chief, Financial Services Division
1315 East-West Highway
Silver Spring, MD 20910
Address same as above
Phone: (301) 713-2390
FAX: (301) 713-1306

Chief, Inspection Services Division
Address same as above
Phone: (1-800-713-1668)
FAX: (301) 713-1081

REGIONAL OFFICES:

Chief, Northeast Inspection Branch
1 Blackburn Drive
Gloucester, MA 01930
Phone: (508) 281-9292
FAX: (508) 281-9134

Chief, Fisheries Analysis Division
Address same as above
Phone: (508) 281-9232
FAX: (508) 281-9333

Chief, Financial Services Branch
Address same as above
Phone: (508) 281-9203
FAX: (508) 281-9375

Chief, Southeast Inspection Branch
9721 Executive Center Drive, North
St. Petersburg, FL 33702
Phone: (813) 570-5383
FAX: (813) 570-5387

Chief, Economics and Trade
Analysis Division
Address same as above
Phone: (813) 570-5335
FAX: (813) 570-5300

Chief, Financial Services Branch
Address same as above
Phone: (813) 570-5335
FAX: (813) 570-5300

Chief, Western Inspection Branch
5600 Rickenbacker Road, Bldg. 7
Bell, CA 90201
Phone: (213) 526-7412
FAX: (213) 526-7417

REGIONAL OFFICES: - Continued

Chief, Fisheries Management Division
501 W. Ocean Blvd., Suite 4200
Long Beach, CA 90802
Phone: (310) 980-4030
FAX: (310) 980-4047

International Trade Specialist
Development Section
Address same as above
Phone: (562) 980-4038
FAX: (562) 980-4047

Chief, Trade and Industry
Services Division
7600 Sand Point Way N.E.
BIN C15700 (Building 1)
Seattle, WA 98115
Phone: (206) 526-6117
FAX: (206) 526-6544

Chief, Financial Services Branch
(Pacific Coast Area)
Address same as above
Phone: (206) 526-6122
FAX: (206) 526-6306

Fisheries Development Specialist
International Affairs Officer
709 West 9th St., 4th Floor
P.O. Box 21668
Juneau, AK 99802
Phone: (907) 586-7224
FAX: (907) 586-7249

OVERSEAS:

Eric Fleury, Commercial Specialist
Commercial Section
U.S. Embassy
2 Avenue Gabriel
75382 Paris Cedex 08
FRANCE
Phone: 011-33-1-43-12-20-04
FAX: 011-33-1-43-12-21-72

U.S. Mission to the European Union
40 Blvd. du Regent
B-1000 Brussels
BELGIUM
Phone: 011-32-2-508-2769
FAX: 011-32-2-513-1228

Tom Asakawa, Commercial Specialist
Commercial Section
1-10-5 Akasaka
Minato-ku, TOKYO 107
JAPAN
Phone: 011-81-3-3224-5077
FAX: 011-81-3-3589-4235

ANADROMOUS SPECIES. These are species of fish that mature in the ocean, and then ascend streams to spawn in freshwater. In the Magnuson Act, these species include, but are not limited to, Atlantic and Pacific salmon, steelhead trout, and striped bass. See 42 FR 60682, Nov. 28, 1977.

ANALOG PRODUCTS. These include imitation and simulated crab, lobster, shrimp, scallops, and other fish and shellfish products fabricated from processed fish meat (such as surimi).

AQUACULTURE. The farming of aquatic organisms in marine, brackish or freshwater. Farming implies private or corporate ownership of the organism and enhancement of production by stocking, feeding, providing protection from predators or other management measures. Aquaculture production is reported as the weight and value of cultured organisms at their point of final sale.

BATTER-COATED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a batter containing a leavening agent and mixture of cereal products, flavoring, and other ingredients, and partially cooked in hot oil a short time to expand and set the batter.

BOAT, OTHER. Commercial fishing craft not powered by a motor, e.g., rowboat or sailboat, having a capacity of less than 5 net tons. See motorboat.

BREADED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a non-leavened mixture containing cereal products, flavorings, and other ingredients. Breaded products are sold raw or partially cooked.

BREADED SHRIMP. Peeled shrimp coated with breading. The product may be identified as fantail (butterfly) and round, with or without tail fins and last shell segment; also known as portions, sticks, steaks, etc., when prepared from a composite unit of two or more shrimp pieces whole shrimp or a combination of both without fins or shells.

BUTTERFLY FILLET. Two skin-on filets of a fish joined together by the belly skin. See filets.

CANNED FISHERY PRODUCTS. Fish, shellfish, or other aquatic animals packed in cans, or other containers, which are hermetically sealed and heat-sterilized. Canned fishery products may include milk, vegetables, or other products. Most, but not all, canned fishery products can be stored at room temperature for an indefinite time without spoiling.

COMMERCIAL FISHERMAN. An individual who derives income from catching and selling living resources taken from inland or marine waters.

CONSUMPTION OF EDIBLE FISHERY PRODUCTS. Estimated amount of commercially landed fish, shellfish, and other aquatic animals consumed by the civilian population of the United States. Estimates are on an edible-weight basis and have been adjusted for beginning and ending inventories of edible fishery products. Consumption includes U.S. production of fishery products from both domestically caught and imported fish, shellfish, other edible aquatic plants, animals, and imported products and excludes exports and purchases by the U.S. Armed Forces.

CONTINENTAL SHELF FISHERY RESOURCES. These are living organisms of any sedentary species that at the harvestable stage are either (a) immobile on or under the seabed, (b) unable to move except in instant physical contact with the seabed or subsoil of the continental shelf. The Magnuson Act now lists them as certain abalones, surf clam and ocean quahog, queen conch, Atlantic deep-sea red crab, dungeness crab, stone crab, king crabs, snow (tanner) crabs, American lobster, certain corals, and sponges.

CURED FISHERY PRODUCTS. Products preserved by drying, pickling, salting, or smoking; not including canned, frozen, irradiated, or pasteurized products. Dried products are cured by sun or air-drying; pickled or salted products are those products preserved by applying salt, or by pickling (immersing in brine or in a vinegar or other preservative solution); smoked products are cured with smoke or a combination of smoking and drying or salting.

DEFLATED VALUE. The deflated values referred to in this document are calculated with the Gross Domestic Products Implicit Price Deflator. The base year for this index is 1987.

EDIBLE WEIGHT. The weight of a seafood item exclusive of bones, offal, etc.

EEZ. See U.S. Exclusive Economic Zone.

EUROPEAN UNION. Belgium and Luxembourg, Denmark, Federal Republic of Germany, Greece, France, Ireland, Italy, Netherlands, Portugal, Spain, and United Kingdom. This was formerly known as European Economic Community (EEC).

EXPORT VALUE. The value reported is generally equivalent to f.a.s. (free alongside ship) value at the U.S. port of export, based on the transaction price, including inland freight, insurance, and other charges incurred in placing the merchandise alongside the carrier at the U.S. port of exportation. The value excludes the cost of loading, freight, insurance and other charges or transportation cost beyond the port of exportation.

EXPORT WEIGHT. The weight of individual products as exported, i.e., fillets, steaks, whole, breaded, etc. Includes both domestic and foreign re-exports data.

EXVESSEL PRICE. Price received by the harvester for fish, shellfish, and other aquatic plants and animals.

FISH BLOCKS. Regular fish blocks are frozen blocks or slabs of fillets or pieces of fillets cut or sliced from fish. Minced fish blocks are frozen blocks or slabs of minced flesh produced by a meat and bone separating machine.

FISH FILLETS. The sides of fish that are either skinned or have the skin on, cut lengthwise from the backbone. Most types of fillets are boneless or virtually boneless; some may be labeled as "boneless fillets."

FISH MEAL. A high-protein animal feed supplement made by cooking, pressing, drying, and grinding fish or shellfish.

FISH OIL. An oil extracted from body (body oil) or liver (liver oil) of fish and marine mammals; mostly a byproduct of fish meal production.

FISH PORTION. A piece of fish flesh that is generally of uniform size with thickness of 3/8 of an inch or more and

differs from a fish stick in being wider or of a different shape. A fish portion is generally cut from a fish block.

FISH SOLUBLES. A water-soluble protein byproduct of fish meal production. Fish solubles are generally condensed to 50 percent solids and marketed as "condensed fish solubles."

FISH STEAK. A cross-section slice cut from a large dressed fish. A steak is usually about 3/4 of an inch thick.

FISH STICK. An elongated piece of breaded fish flesh weighing not less than 3/4 of an ounce and not more than 1-1/2 ounces with the largest dimension at least three times that of the next largest dimension. A fish stick is generally cut from a fish block.

FISHERY MANAGEMENT PLAN (FMP). A plan developed by a Regional Fishery Management Council, or the Secretary of Commerce under certain circumstances, to manage a fishery resource in the U.S. EEZ pursuant to the MFCMA (Magnuson Act).

FISHING CRAFT, COMMERCIAL. Boats and vessels engaged in capturing fish, shellfish, and other aquatic plants and animals for sale.

FULL-TIME COMMERCIAL FISHERMAN. An individual who receives more than 50 percent of their annual income from commercial fishing activities, including port activity, such as vessel repair and re-rigging.

GROUND FISH. Broadly, fish that are caught on or near the sea floor. The term includes a wide variety of bottomfishes, rockfishes, and flatfishes. However, NMFS sometimes uses the term in a narrower sense. In "Fisheries of the United States," the term applies to the following species—Atlantic and Pacific: cod, hake, ocean perch, and pollock; cusk; and haddock.

IMPORT VALUE. Value of imports as appraised by the U.S. Customs Service according to the Tariff Act of 1930, as amended. It may be based on foreign market value, constructed value, American selling price, etc. It generally represents a value in a foreign country, and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise to the United States.

IMPORT WEIGHT. The weights of individual products as received, i.e., fillets, steaks, whole, headed, etc.

INDUSTRIAL FISHERY PRODUCTS. Items processed from fish, shellfish, or other aquatic plants and animals that are not consumed directly by humans. These items contain products from seaweeds, fish meal, fish oils, fish solubles, pearl essence, shark and other aquatic animal skins, and shells.

INTERNAL WATER PROCESSING (IWPs). An operation in which a foreign vessel is authorized by the governor of a state to receive and process fish in the internal waters of a state. The Magnuson Act refers to internal waters as all waters within the boundaries of a state except those seaward of the baseline from which the territorial sea is measured.

JOINT VENTURE. An operation authorized under the MFCMA (Magnuson Act) in which a foreign vessel is authorized to receive fish from U.S. fishermen in the U.S. EEZ. The fish received from the U.S. vessel are part of the U.S. harvest.

LANDINGS, COMMERCIAL. Quantities of fish, shellfish, and other aquatic plants and animals brought ashore and sold. Landings of fish may be in terms of round (live) weight or dressed weight. Landings of crustaceans are generally on a live-weight basis except for shrimp which may be on a heads-on or heads-off basis. Mollusks are generally landed with the shell on, but for some species only the meats are landed, such as sea scallops. Data for all mollusks are published on a meat-weight basis.

MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT. Public Law 94-265, as amended. The Magnuson Act provides a national program for the conservation and management of fisheries to allow for an optimum yield (OY) on a continuing basis and to realize the full potential of the Nation's fishery resources. It established the U.S. Exclusive Economics Zone (EEZ) (formerly the FCZ - Fishery Conservation Zone) and a means to control foreign and certain domestic fisheries through PMPs and FMPs. Within the U.S. EEZ, the United States has exclusive management authority over fish (meaning finfish, mollusks, crustaceans, and all other forms of marine animal and plant life other than marine mammals, birds, and highly migratory species of tuna). The Magnuson Act provides further exclusive management authority beyond the U.S. EEZ for all continental shelf fishery resources and all anadromous species throughout the migratory range of each such species, except during the time

they are found within any foreign nation's territorial sea or fishery conservation zone (or the equivalent), to the extent that such a sea or zone is recognized by the United States.

MARINE RECREATIONAL FISHING. Fishing for pleasure, amusement, relaxation, or home consumption.

MARINE RECREATIONAL CATCH. Quantities of finfish, shellfish and other living aquatic organisms caught, but not necessarily brought ashore, by marine recreational fisherman.

MARINE RECREATIONAL FISHERMEN. Those people who fish in marine waters primarily for recreational purposes. Their catch is primarily for home consumption, although occasionally a part or all of their catch may be sold and enter commercial channels. This definition is used in the NMFS Marine Recreational Fishery Statistics Survey, and is not intended to represent a NMFS policy on the sale of angler-caught fish.

MAXIMUM SUSTAINABLE YIELD (MSY). MSY from a fishery is the largest annual catch or yield in terms of weight of fish caught by both commercial and recreational fishermen that can be taken continuously from a stock under existing environmental conditions. A determination of MSY, which should be an estimate based upon the best scientific information available, is a biological measure necessary in the development of optimum yield.

METRIC TONS. A measure of weight equal to 1,000 kilograms, 0.984 long tons, 1.1023 short tons, or 2,204.6 pounds.

MOTORBOAT. A motor-driven commercial fishing craft having a capacity of less than 5 net tons, or not officially documented by the Coast Guard. See "boat, other."

NORTHWEST ATLANTIC FISHERIES ORGANIZATION (NAFO). This convention, which entered into force January 1, 1979, replaces ICNAF. NAFO provides a forum for continued multilateral scientific research and investigation of fishery resources that occur beyond the limits of coastal nations' fishery jurisdiction in the northwest Atlantic, and will ensure consistency between NAFO management measures in this area and those adopted by the coastal nations within the limits of their fishery jurisdiction.

OPTIMUM YIELD (OY). In the MFCMA (Magnuson Act), OY with respect to the yield from a fishery, is the amount of fish that (1) will provide the greatest overall benefit to the United States, with particular reference to food production and recreational opportunities; and (2) is prescribed as such on the basis of

maximum sustainable yield from such fishery, as modified by any relevant ecological, economic, or social factors.

PACKAGED FISH. A term used in NMFS publications prior to 1972 to designate fresh or frozen raw fish fillets and steaks.

PART-TIME COMMERCIAL FISHERMAN. An individual who receives less than 50 percent of their annual income from commercial fishing activities.

PER CAPITA CONSUMPTION. Consumption of edible fishery products in the United States divided by the total civilian population. In calculating annual per capita consumption, estimates of the civilian resident population of the United States on July 1 of each year are used. These estimates are taken from current population reports, series P-25, published by the U.S. Bureau of the Census.

PER CAPITA USE. The use of all fishery products, both edible and nonedible, in the United States divided by the total population of the United States.

PRELIMINARY FISHERY MANAGEMENT PLAN (PMP). The Secretary of Commerce prepares a PMP whenever a foreign nation with which the United States has made a Governing International Fishery Agreement (GIFA) submits an application to fish in a fishery not managed by an FMP. A PMP is replaced by an FMP as soon as the latter is implemented. A PMP applies only to foreign fishing.

RE-EXPORTS. Re-exports are commodities which have entered the U.S. as imports and are subsequently exported in substantially the same condition as when originally imported.

RETAIL PRICE. The price of fish and shellfish sold to the final consumer by food stores and other retail outlets.

ROUND (LIVE) WEIGHT. The weight of fish, shellfish, or other aquatic plants and animals as taken from the water; the complete or full weight as caught. The tables on world catch found in this publication include, in the case of mollusks, the weight of both the shells and the meats, whereas the tables on U.S. landings include only the weight of the meats.

SURMI. Minced fish meat (usually Alaska pollock) which has been washed to remove fat and undesirable matters (such as blood, pigments, and odorous substances), and mixed with cryoprotectants, such as sugar and/or sorbitol, for a good frozen shelf life.

TOTAL ALLOWABLE LEVEL OF FOREIGN FISHING (TALFF). he TALFF, if any, with respect to any fishery subject to the exclusive fishery management authority of the United States, is that portion of the optimum yield of such fishery which will not be harvested by vessels of the United States, as determined by provisions of the MFCMA.

U.S. EXCLUSIVE ECONOMIC ZONE (EEZ). The MFCMA (Magnuson Act) defines this zone as contiguous to the territorial sea of the United States and extending seaward 200 nautical miles measured from the baseline from which the territorial sea is measured. This was formerly referred to as the FCZ (Fishery Conservation Zone).

U.S.-FLAG VESSEL LANDINGS. Includes landings by all U.S. fishing vessels regardless of where landed as opposed to landings at ports in the 50 United States. These include landings at foreign ports, U.S. territories, and foreign vessels in the U.S. FCZ under joint venture agreements. U.S. law prohibits vessels constructed or registered in foreign countries to land fish catches at U.S. ports.

U.S. TERRITORIAL SEA. A zone extending 3 nautical miles from shore for all states except Texas and the Gulf Coast of Florida where the seaward boundary is 3 marine leagues (9 nautical miles).

USE OF FISHERY PRODUCTS. Estimated disappearance of the total supply of fishery products, both edible and nonedible, on a round-weight basis without considering beginning or ending stocks, exports, military purchases, or shipments to U.S. territories.

VESSEL. A commercial fishing craft having a capacity of 5 net tons or more. These craft are either enrolled or documented by the U.S. Coast Guard and have an official number assigned by that agency.

WHOLESALE FISH AND SHELLFISH PRICES. Those prices received at principal fishery markets by primary wholesalers (processors, importers, and brokers) for customary quantities, free on board (f.o.b.) warehouse.

AQUACULTURE

Production 18

CLAMS

Aquaculture, 18
Canned, 91
Exports, 105, 120
Frozen holdings, 94
Imports, 97, 120
Landings, 2, 8, 12, 120
Supply, 120
Value of landings, 2, 8, 12

COLD STORAGE

Holdings, monthly, 94

CONSUMPTION

Canned, 124, 126
Cured, 124
Fillets and steaks, 126
Fresh and frozen, 124
Per capita, by country, 128
Per capita, U.S., 124
Per capita, use, 127
Salmon, canned, 126
Sardines, canned, 126
Shellfish, canned, 126
Shrimp, 126
Sticks and portions, 126
Tuna, canned, 126

CRABS

Canned, 91, 118
Exports, 105, 110, 118
Frozen holdings, 94
Imports, 97, 118
Landings, 2, 8, 12, 15, 16
Supply, 118
Value of landings, 2, 8, 12, 15, 16
World catch, 86

CRAFT, FISHING

Number, by region and state, 133

DISPOSITION OF LANDINGS

United States, 3
World, 86

DUTIES

Collected, 98

EMPLOYMENT

Processors and wholesalers, 135
Region and State, 135

EXPORTS

All fishery products, 105
Crabs, 105, 110
Crabmeat, 105, 110
Continent and country, by, 107
Cured, 105
Edible, by years, 106
Fish meal, 105, 110, 122
Herring, 105
Nonedible, by years, 106
Oils, 105, 110, 122
Principal items, 105
Salmon, canned, 105, 109, 117
Salmon, whole or eviscerated, 105, 109
Sardines, canned, 105, 117
Shrimp, canned, 105, 108, 121
Shrimp, domestic and foreign products, 108, 121
Shrimp, fresh and frozen, 105, 108
Snow (tanner) crab, 118
Value, by years, 106
Volume, by country, 106
World, by country, 87

FLOUNDERS

Fillets, 90
Frozen holdings, 94
Landings, 1, 6, 10
Value of landings, 1, 6, 10

GROUNDFISH FILLETS AND STEAKS

Exports, 105
Fillets, supply, 114
Imports, 97, 100

HALIBUT

Fillets and steaks, 90
Frozen holdings, 94
Landings, 1, 6, 10
Value of landings, 1, 6, 10

HERRING, SEA

Canned (sardines), 91
Consumption (sardines), per capita, 126

HERRING, SEA - Continued

Landings, 1, 6, 10
Exports (sardines), 105, 110
Imports (sardines), 97
Value of landings, 1, 6, 10
World catch, 86

IMPORTS

All fishery products, 97, 98
Blocks and slabs, 97, 100
Clams, canned, 97
Continent and country, by, 99
Crabmeat, canned, fresh and frozen, 97, 118
Cured, 97
Duties collected, 98
Edible, 97, 98, 99, 114, 115
Fillets, groundfish, 97, 100
Fillets, other than groundfish and ocean perch, 97
Finfish, 114
Groundfish, 97, 100, 115
Herring, canned, 97
Industrial, 113, 114
Lobsters, canned, 97
Lobsters, fresh and frozen, 97
Meal and scrap, 97, 103
Nonedible, 97, 98, 99
Oils, 97, 120
Oysters, canned, 97
Principal items, 97
Quota, canned tuna, not in oil, 101
Salmon, canned, 97, 117
Salmon, fresh and frozen, 97
Sardines, canned, 97, 117
Scallop meats, 97, 120
Shellfish, 114
Shrimp, by country, 102
Shrimp, by products, 103
Tuna, canned, 97, 101, 117
Tuna, fresh and frozen, 97, 116
Value, by years, 98
Volume, by year, 98
World, by country, 87

INSPECTION

Establishments and amount inspected, 136

LANDINGS

Disposition, 3
 Foreign shores, off, 6, 10
 Human food (edible), 3
 Industrial, 3
 Months, by, 3
 Ports, major U.S., 5
 Record year, by States, 4
 Species, 1, 6, 10
 State and region, current, 4
 Swordfish, historical by state, 20
 Territory, 14
 U.S. shores, distance from, 6, 10
 World, 83, 84, 85, 86

LOBSTERS, AMERICAN

Imports, 97, 119
 Landings, 2, 8, 12, 119
 Supply, 119
 Value of landings, 2, 8, 12

LOBSTER, SPINY

Frozen holdings, 94
 Imports, 97, 119
 Landings, 2, 8, 12, 15, 16, 119
 Supply, 119
 Value of landings, 2, 8, 12, 15, 16

MACKERELS

Landings, 1, 6, 10
 Value of landings, 1, 6, 10
 World catch, 86

**MAGNUSON FISHERY CONSERVATION
AND MANAGEMENT ACT (MFCMA)**

Fishery Management Plan, 139
 Fees, foreign fishing, 138
 General description, 138
 Optimum yield by species, 141
 Regional Fishery Management
 Councils, 140

MEAL AND SCRAP

Exports, 105, 110
 Imports, 97, 103
 Landings, disposition, 3
 Mackerel, 93
 Menhaden, 93
 Production, U.S., 93
 Supply, 122
 Tuna, 93
 World, disposition, 86

MENHADEN

Landings, 1, 7, 11
 Meal, 93
 Oil, 93
 Value of landings, 1, 7, 11

OIL

Exports, 105, 122
 Imports, 97, 122
 Menhaden, 93
 Production, 93
 Supply, 122
 World, disposition, 86

OYSTERS

Aquaculture, 18
 Canned, 91
 Imports, 97, 120
 Landings, 2, 8, 12, 15, 16
 Supply, 120
 Value of landings, 2, 8, 12, 15, 16
 World catch, 86

PLANTS AND FIRMS

Employment, 135
 Processors and wholesalers, 135

PRICES

Exvessel index, 131

PROCESSING

Animal food and bait, canned,
 89, 91, 92
 Canned products, 89, 91, 92
 Canned, by year, 92
 Clams, canned 91
 Crabs, canned, 91, 118
 Employment in, 135
 Fillets and steaks, fresh
 and frozen, 90
 Frozen holdings, 94
 Industrial products, 93
 Meal, oil, 89, 93
 Oysters, canned, 91
 Plants, number of, 135
 Salmon canned, 91
 Sardines, canned, 91
 Shrimp, canned, 91
 Sticks, portions, and breaded
 shrimp, 89

RECREATIONAL FISHERIES

Atlantic & Gulf Statistics:
 Catch (number) by species and
 sub-region, 34 - 47
 Catch (weight) by species and
 sub-region, 48 - 61
 Catch (number) by species and
 area, 64 - 70
 Catch (weight) by species and
 area, 71 - 77
 Participants (number) by sub-
 region and state, 29 - 30
 Fishing trips (number) by sub-
 region and state, 31 - 32
 Pacific Statistics:
 Catch (number) by species, 62
 Catch (weight) by species, 63
 Catch (number) by species and
 fishing area, 78 - 79
 Catch (weight) by species and
 fishing area, 80-81
 Participants (number) by sub-
 region and state, 33
 Fishing trips (number) by sub-
 region and state, 33
 U.S., Total:
 Participants by coast, 33
 Fishing trips by coast, 33
 Sampling coverage, 28

SALMON

Aquaculture, 18
 Canned, 91, 117
 Consumption, per capita, 126
 Exports, 105, 109
 Fillets and steaks, 90
 Frozen holdings, 94
 Imports, 97
 Landings, 1, 7, 11
 Supply, canned, 117
 Value of landings, 1, 7, 11
 World catch, 86

SARDINES

Canned, 91, 117
 Consumption, per capita, 126
 Exports, 105, 117
 Imports, 97, 117
 Supply, canned, 117
 World catch, 86

SCALLOPS

Exports, 105, 120
Imports, 97, 120
Landings, 2, 9, 13
Supply, 120
Value of landings, 2, 9, 13
World catch, 86

SHRIMP

Aquaculture, 18
Breaded, 89
Canned, 91, 97, 121
Consumption, per capita, 126
Exports, 105, 108, 121
Frozen holdings, 94
Imports, 97, 102, 103, 121
Landings, head-off, 121
Landings, head-on, 2, 9, 13, 16
Supply, canned, 121
Supply, total, 121
Value of landings, 2, 9, 13, 16
World catch, 86

SUPPLY

All fishery products, 113, 114
Blocks, 115
Clam meats, 120
Crabs, 118
Crabmeat, 118
Edible fishery products, 113, 114
Fillets and steaks, all, 115
Fillets & steaks, groundfish, 115
Finfish, 114
Industrial products, 113, 114
Lobsters, American, 119
Lobsters, spiny, 119
Meal, 122
Meal and solubles, 122
Oils, 122
Oysters, 120
Salmon, canned, 117
Sardines, canned, 117
Scallop meats, 120

SUPPLY- Continued

Shellfish, 114
Shrimp, 121
Tuna, 116

SWORDFISH

Historical landing by state, 20
Landings, 2, 8, 11
Value of landings, 2, 8, 11

TUNA

Canned, 91, 97, 101
Consumption, per capita, 126
Exports, 105
Imports, 97, 101, 116
Landings, 2, 8, 12, 14, 16, 116
Meal, 93
Quota, imports, canned, 101
Supply, canned, 117
Value of landings, 2, 8, 12, 14, 16
World catch, 86

USE

Per capita, 127
Landings, by month, 3
Valued added, 132

WHITING

Frozen holdings, 94
Landings, 2, 8, 12
Value of landings, 2, 8, 12

WORLD FISHERIES

Catch by countries, 84
Catch by continents, 85
Catch by major fishing areas, 85
Catch by species groups, 86
Catch by years, 83
Disposition, 86
Imports and exports value, 87
Per capita consumption, by country, 128



-- NOTES --

Federal Inspection Marks for Fishery Products

NATIONAL FISHERY PRODUCTS INSPECTION PROGRAM. The U.S. Department of Commerce (USDC), National Marine Fisheries Service, a part of the National Oceanic and Atmospheric Administration, conducts a voluntary seafood inspection program on a fee-for-service basis. A HACCP-based service is also available. Services provided by the program include vessel and plant sanitation, product inspection and grading, label reviews, product specification reviews, laboratory analyses, training, education and information. Inspection and certification services are available nationwide and in U.S. territories for all interested parties. Consultative services are provided in foreign countries. Inspection and certification services are also provided for imported and exported products. The USDC Seafood Inspection Division also provides HACCP training, plan development, implementation assistance, and verification service to industry for the purpose of demonstrating compliance with FDA's HACCP rule (21 CFR Parts 123 and 1240) regarding "Procedures for the Safe and Sanitary Processing and Importing of Fish and Fishery Products" which will be implemented December 18, 1997.

USERS OF INSPECTION SERVICES. The users of the voluntary seafood inspection service include vessel owners, processors, distributors, brokers, retailers, food service operators, exporters, importers, and those who have a financial interest in buying and selling seafood products. The U.S. Department of Agriculture recommends that USDC inspected products be purchased for its food feeding programs. The **USDC APPROVED LIST OF FISH ESTABLISHMENTS AND PRODUCTS**, published bi-annually, provides a listing of products and participants who contract with USDC.

USDC INSPECTION MARKS. These marks designate the level and the type of inspection performed by the federal inspector. The marks can be used in advertising and labeling under the guidelines provided by the Inspection Services Division and in accordance with federal and state regulations regarding advertising and labeling. Products bearing the USDC official marks have been certified as being safe, wholesome, and properly labeled.

"US GRADE A" MARK. The U.S. GRADE A mark signifies that a product has been processed under federal inspection in an approved facility and meets the established level of quality of an existing U.S. grade standard. The U.S. Grade A mark indicates that the product is of high quality, uniform in size, practically free from blemishes and defects, in excellent condition and possessing good flavor and odor.

"PROCESSED UNDER FEDERAL INSPECTION" MARK. The PUFI mark or statement signifies that the product has been inspected in an approved facility and was found to be safe, wholesome and properly labeled according to approved specifications or criteria. The language within the PUFI mark has been amended to "Processed Under Federal Inspection" to reflect actual inspection procedures and the regulatory requirements for use of the mark.

"LOT INSPECTED" MARKS. A new Lot Inspected mark was created to replace the existing "Officially Sampled" and "Accepted Per Specifications" marks currently used on retail labels. The use of this mark meets the needs of both industry and consumers by conveying that the products bearing the mark have been examined by the USDC Program.

"RETAIL" MARK. In response to requests made by industry, a new mark has been created for retail or food service establishments. Participants qualify for use of the "Retail Mark" by receiving the NMFS HACCP-based service or being under contract for sanitation services and associated product evaluation. Usage of such a mark will give the retail industry the opportunity to advertise on their banners, logos, or menus that their facility has been recognized by USDC for proper sanitation and handling of fishery products.



USDC HACCP MARK. The USDC HACCP-based service is available to all interested parties on a fee-for-service basis. Label approval, record keeping and analytical testing are program requirements. An industry USDC certified employee trained in HACCP principles is also required for each facility/site in the program. Compliance ratings determine frequency of official visits. Benefits to participants include increased controls through a more scientific approach, use of established marks, increased efficiency of federal inspection personnel, and enhanced consumer confidence. The USDC has made available a HACCP mark and a "banner" to distinguish products that have been produced under the HACCP-based program. The HACCP banner must be used as an attachment to existing inspection grade marks. Establishments meeting HACCP program requirements may use these marks in conjunction with promotional material, packaging, point-of-sale notices, and menus.

FOR FURTHER INFORMATION:

Seafood Inspection Division
U.S. Department of Commerce
NOAA/NMFS

1315 East-West Highway
Silver Spring, MD 20910
(301) 713-2355 (FAX: 713-1081)

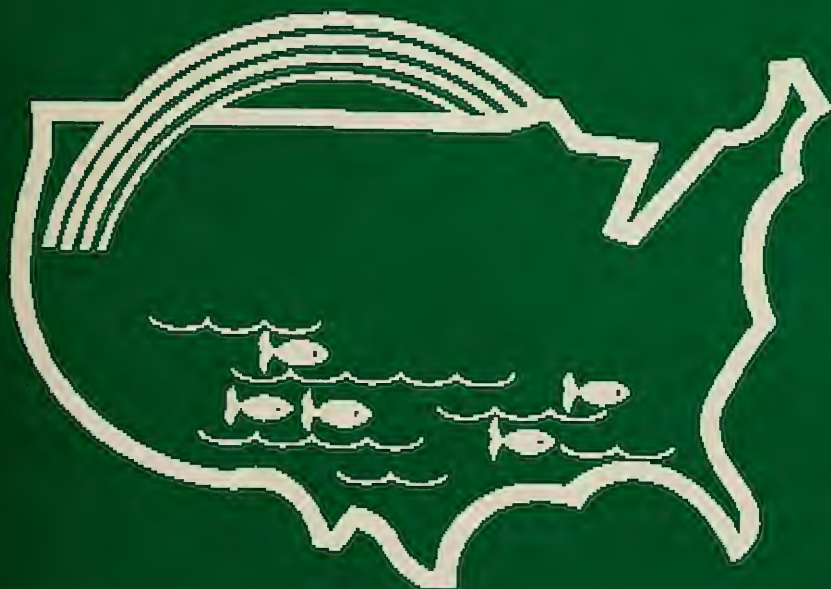
Internet: <http://seafood.ssp.nmfs.gov/iss/issue.html>

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service, F/ST1
1315 East West Highway -
Silver Spring, MD 20910-3282

OFFICIAL BUSINESS

Fisheries of the United States, 1997

September 1998



U.S. DEPARTMENT
OF COMMERCE

National Oceanic and
Atmospheric Administration

National Marine
Fisheries Service

Fisheries of the United States, 1997

Prepared by:
Fisheries Statistics and Economics Division

Mark C. Holliday, Chief
Barbara K. O'Bannon, Editor

Silver Spring, MD
September 1998



U.S. DEPARTMENT OF COMMERCE

William Daley, Secretary

National Oceanic and Atmospheric Administration

D. James Baker, Under Secretary

National Marine Fisheries Service

Rolland A. Schmitten, Assistant Administrator

PREFACE

FISHERIES OF THE UNITED STATES, 1997

This publication is a preliminary report for 1997 on commercial and recreational fisheries of the United States with catches in the U.S. waters and foreign Exclusive Economic Zones (EEZ) waters. This annual report provides timely answers to frequently asked questions.

SOURCES OF DATA

Information in this report came from many sources. Field offices of the National Marine Fisheries Service (NMFS), in cooperation with various States, collected and compiled data on U.S. commercial landings and processed fishery products. The NMFS Fisheries Statistics and Economics Division in Silver Spring, MD, managed the collection and compilation of recreational statistics, and tabulated and prepared all data for publication. Sources of other data appearing in this publication are: U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Coast Guard, U.S. Customs Service, U.S. Department of the Interior, U.S. Department of Agriculture, and the Food and Agriculture Organization (FAO) of the United Nations.

PRELIMINARY AND FINAL DATA

Data on U.S. commercial and recreational landings, employment, prices, and production of processed products are preliminary for 1997. Final data will be published in other NMFS Current Fishery Statistics publications.

The Fisheries Statistics and Economics Division of NMFS takes this opportunity to thank members of states, industry, and foreign nations who provided the data that made this publication possible.

Program leaders of the field offices were: Gregory Power, New England, Middle Atlantic, and Chesapeake; Tony Frank, National Biological Service Science Center, Great Lakes States; Nelson Johnson, Guy Davenport, and Margot Hightower for the South Atlantic and Gulf States; Patricia J. Donley, California and Hawaii; John K. Bishop, Oregon and Washington; and David Ham, Alaska.

NOTES

The time series of U.S. catch by species and distance from shore included in this year's "Fisheries of the U.S." is estimated by the National Marine Fisheries Service.

As in past issues of this publication, the units of quantity and value are defined as follows: U.S. landings are shown in round weight (except mollusks which are in meat weight), unless otherwise noted; quantities shown for U.S. imports and exports are in product weight, as reported by the U.S. Bureau of the Census, unless otherwise noted; the value of the U.S. domestic commercial catch is exvessel (in the Review Section on important species actual and deflated exvessel prices are shown. The deflated value was computed using the Gross Domestic Products Implicit Price Deflator); the value for U.S. imports is generally the market value in the foreign (exporting) country and, therefore, excludes U.S. import duties, freight charges from the foreign country to the United States, and insurance; the value for exports is generally the value at the U.S. port of export, based on the selling price, including inland freight, insurance, and other charges. Countries and territories shown in the U.S. foreign trade section are established for statistical purposes in the Tariff Schedules of the United States Annotated (International Trade Commission) and reported by the U.S. Bureau of the Census.

SUGGESTIONS

The Fisheries Statistics and Economics Division wishes to provide the kinds of data sought by users of fishery statistics, and welcomes any comments or suggestions that will improve this publication.

Address all comments or questions to:

Fisheries Statistics and Economics
Division, (F/ST1)
National Marine Fisheries Service, NOAA
1315 East-West Highway - Rm. 12340
Silver Spring, MD 20910-3282
PHONE: 301-713-2328
FAX: 301-713-4137

Members of the Fisheries Statistics and Economics Division in Silver Spring who helped with this publication were: Daryl Bullock, Kim Dawson, Josanne Fabian, Tom Ferris, Karen Foster, Amy Gautam, Ray Glass, Laurie Hamilton, Rob Hicks, Deborah Hogans, Mark Holliday, Steven Koplin, Steve Meyers, Barbara O'Bannon, Maury Osborn, Liz Pritchard, Warren Schlechte, David Sutherland, Glen Taylor, William Uttley, David Van Voorhees, John Ward, and Lelia Wise. Summer students Aida Ndiaye and Melissa Milliken also contributed.

CONTENTS

Page	Page
PREFACE AND ACKNOWLEDGEMENT	ii
REVIEW	iv
U.S. COMMERCIAL FISHERY LANDINGS:	
Species.....	1
Disposition.....	5
States.....	6
Regions.....	6
Ports.....	7
Catch by species and distance from shore (thousand pounds).....	8
Catch by species and distance from shore (metric tons).....	14
U.S. Landings for territorial processions.....	20
U.S. Aquaculture production, estimated 1985-1996.....	24
Historical landings of whiting, by state.....	26
U.S. MARINE RECREATIONAL FISHERIES	32
MRFSS sample coverage.....	34
Number of participants and trips....	35
Number of fish caught and the weight of harvest, by species and sub-region or by species and area fished..	38
WORLD FISHERIES:	
U.S. and world.....	67
Countries.....	68
Continents.....	69
Fishing areas.....	69
Species groups.....	70
Disposition.....	70
Imports and exports, by leading countries.....	71
U.S. PRODUCTION OF PROCESSED FISHERY PRODUCTS:	
Value.....	73
Fish sticks, fish portions, and breaded shrimp.....	73
Filletts and steaks.....	74
Canned.....	75
Industrial.....	76
U.S. COLD STORAGE HOLDINGS	78
U.S. IMPORTS:	
Principal items.....	83
Edible and nonedible.....	84
Continent and country.....	85
Blocks.....	86
Groundfish filletts and steaks, species.....	86
Canned tuna and quota.....	87
Shrimp, country of origin.....	88
Shrimp, by product type.....	89
Industrial.....	89
U.S. EXPORTS:	
Principal items.....	91
Edible and nonedible.....	92
Continent and country.....	93
Shrimp.....	94
Salmon.....	95
U.S. EXPORTS -- Continued:	
Crab.....	96
Crabmeat.....	96
Industrial.....	97
U.S. SUPPLY:	
Edible and nonedible.....	99
Finfish and shellfish.....	100
All filletts and steaks.....	101
Groundfish filletts and steaks.....	101
Tuna, fresh and frozen.....	102
Canned sardines.....	103
Canned salmon.....	103
Canned tuna.....	103
King crab.....	104
Snow (tanner) crab.....	104
Canned crabmeat.....	104
Lobster, American.....	105
Lobster, spiny.....	105
Clams.....	106
Oysters.....	106
Scallops.....	106
Shrimp.....	107
Industrial.....	108
PER CAPITA:	
U.S. consumption.....	110
Canned products.....	112
Certain items.....	112
U.S. use.....	113
World, by region and country.....	114
PRICES, INDEX OF EXVESSEL	117
VALUE ADDED	119
EMPLOYMENT, CRAFT, AND PLANTS	120
FISHERY PRODUCTS INSPECTION	123
MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT OF 1976 (MFCMA):	
General.....	124
Optimum yield, U.S. capacity, reserve, and allocations.....	127
GENERAL ADMINISTRATIVE INFORMATION	128
PUBLICATONS:	
NOAA Library Services.....	135
Government Printing Office.....	135
National Marine Fisheries Service -- Natl. Technical Inf. Service.....	136
SERVICES:	
National Marine Fisheries Service -- FAX-on-Demand.....	144
NMFS HomePages.....	146
Bulletin Boards.....	147
Sea Grant Marine Advisory.....	148
Inspection.....	Inside back cover
GLOSSARY	150
INDEX	154

REVIEW

U.S. LANDINGS. Commercial landings (edible and industrial) by U.S. fishermen at ports in the 50 states were 9.8 billion pounds or 4.5 million metric tons valued at \$3.5 billion in 1997--an increase of 280.9 million pounds (up 3 percent), but a decrease of \$20.1 million (down 1 percent) compared with 1996. The volume of 1997 U.S. landings was increased due to landings of major species such as menhaden, yellowfin flounder, snow (tanner) crab, Atlantic cod and Pacific hake (whiting), and due to the inclusion of seaweed (kelp) that had been incompletely reported in past surveys. The decreased value of 1997 landings occurred due to the relatively low value associated with menhaden and seaweed and decreased landings of some high-value fisheries such as salmon and shrimp. Finfish accounted for 85 percent of the total landings, but only 50 percent of the value. The 1997 exvessel price paid to fishermen was 35 cents compared to 36 cents they received in 1996.

Commercial landings by U.S. fishermen at ports outside the 50 states or transferred to internal water processing vessels (IWP) were an additional 378.6 million pounds (171,700 metric tons) valued at \$185.5 million. This was a 7 percent, or 27.5 million pounds (12,500 metric ton) decrease in quantity, but an increase of \$25.5 million (16 percent) in value compared with 1996. Most of these landings consisted of halibut landings in Canada, sea herring and tuna landed in Puerto Rico, American Samoa and other foreign ports, and IWP transfers of sea herring.

Edible fish and shellfish landings in the 50 states were 7.2 billion pounds (3.3 million metric tons) in 1997--a decrease of 226 million pounds (103,000 metric tons) compared with 1996.

Landings for reduction and other industrial purposes were 2.6 billion pounds (1.2 million metric tons) in 1997--an increase of 20 percent compared with 1996.

The 1997 U.S. marine recreational finfish catch (including fish caught and released alive) on the Atlantic, Gulf, and Pacific coasts was an estimated 366.2 million fish taken on an estimated 68.1 million fishing trips. The harvest (fish kept)

was estimated at 163.6 million fish weighing 234.2 million pounds.

WORLD LANDINGS. In 1996, the most recent year for which data are available, world commercial fishery landings were 121.0 million metric tons--an increase of 3.7 million metric tons (up 3 percent) compared with 1994.

China was the leading nation with 26.4 percent of the total catch; Peru, second with 7.9 percent; Chile, third with 5.7 percent; Japan, fourth with 5.6 percent; and United States, fifth with 4.5 percent.

PRICES. The 1997 annual exvessel price index for edible fish and shellfish showed an increase of 5 percent while industrial fish increased 20 percent when compared with 1996. Exvessel price indices decreased for 12 of the 33 species groups being tracked, increased for 20 species groups and were not calculated for calico scallops. The sea herring price index had the largest decrease (50 percent) while the bay scallops price index showed the largest increase (61 percent).

PROCESSED PRODUCTS. The estimated value of the 1997 domestic production of edible and nonedible fishery products was \$6.8 billion, \$1.2 billion (15 percent) less than the \$8.0 billion in 1996. The value of edible products was \$6.2 billion--a decrease of \$1.1 billion (15 percent) compared with 1996. The value of industrial products was \$579.1 million in 1997--a decrease of \$65.4 million (10 percent) compared with 1996.

FOREIGN TRADE. The total import value of edible and nonedible fishery products was \$14.5 billion in 1997--an increase of \$1.5 billion (11 percent) compared with 1996. Imports of edible fishery products (product weight) were 3.3 billion pounds (1.5 million metric tons) valued at \$7.8 billion in 1997--an increase of 169.1 million pounds (5 percent) and \$1.0 billion (15 percent) compared with 1996. Imports of nonedible (i.e., industrial) products were \$6.8 billion--an increase of \$443.3 million (7 percent) compared with 1996.

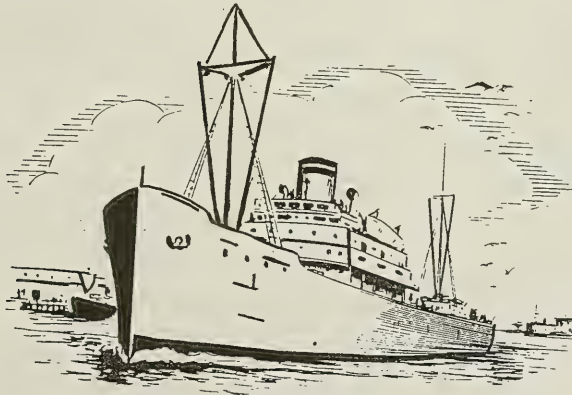
REVIEW

Total export value of edible and nonedible fishery products was \$9.4 billion in 1997--an increase of \$700.2 million (8 percent) compared with 1996. United States firms exported 2.0 billion pounds (915,800 metric tons) of edible products valued at \$2.7 billion--a decrease of 93.2 million pounds, and \$319.2 million compared with 1996. Exports of nonedible products were valued at a record \$6.6 billion, \$1.0 billion more than 1996.

SUPPLY. The U.S. supply of edible fishery products (domestic landings plus imports, round weight equivalent) was 13.7 billion pounds (6.2 million metric tons) in 1997--an increase of 115.0 million pounds compared with 1996. The supply of industrial fishery products was 3.7 billion pounds (1.7 million metric tons) in 1997--an increase of 843.0 million pounds (6 percent) compared with 1996.

PER CAPITA CONSUMPTION. U.S. consumption of fishery products was 14.6 pounds of edible meat per person in 1997, down 0.2 pound from the 1996 per capita consumption of 14.8 pounds.

CONSUMER EXPENDITURES. U.S. consumers spent an estimated \$46.5 billion for fishery products in 1997. The 1997 total includes \$31.3 billion in expenditures at food service establishments (restaurants, carry-outs, caterers, etc.); \$14.8 billion in retail sales for home consumption; and \$323.3 million for industrial fish products. By producing and marketing a variety of fishery products for domestic and foreign markets, the commercial marine fishing industry contributed \$24.4 billion (in value added) to the U.S. Gross National Product.



REVIEW

OTHER IMPORTANT FACTS

Alaska pollock, with landings of 2.5 billion pounds (1.1 million metric tons), was the most important species in quantity and fifth in value for 1997, accounting for 26 percent of the commercial fishery landings in the United States.

Menhaden was the second most important species in quantity, but low in value.

Cods were third in quantity and sixth in value.

Salmon were fourth in quantity and fourth in value.

Flounders were fifth in quantity, and seventh in value.

Hakes were sixth in quantity, but low in value.

Shrimp were ninth in quantity, but first in value.

Crabs were seventh in quantity, but second in value.

Lobsters were low in quantity, but third in value.

Tuna landings by U.S.-flag vessels at ports outside the continental United States amounted to 373.8 million pounds. Halibut, grouper and sea herring also were landed at ports outside the United States or transferred to internal water processing vessels in U.S. waters.

Dutch Harbor-Unalaska, Alaska, was the leading U.S. port in quantity of commercial fishery landings, followed by: Reedville, Virginia; Empire-Venice, Louisiana; Cameron, Louisiana; and Seattle, Washington.

Dutch Harbor-Unalaska was also the leading U.S. port in terms of value, followed by: New Bedford, Massachusetts; Kodiak, Alaska; Empire-Venice, Louisiana; and Key West, Florida.

Alaska led all states in volume with landings of 4.8 billion pounds, followed by Louisiana, 1.4 billion; California, 648.7 million; Virginia, 611.5 million; and Washington, 438.6 million pounds.

Alaska led all states in value of landings with \$1.1 billion, followed by Louisiana, \$318.8 million; Maine, \$223.2 million; Massachusetts, \$214.7 million; and Florida, \$209.2 million.

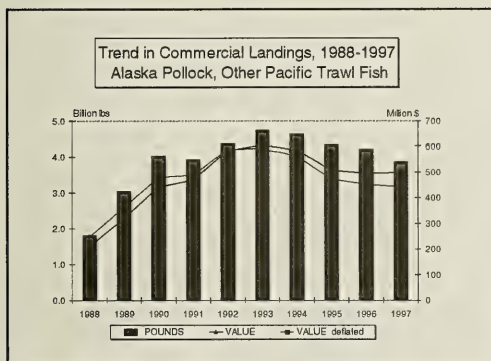


REVIEW

IMPORTANT SPECIES

ALASKA POLLOCK AND OTHER PACIFIC TRAWL FISH. U.S. landings of Pacific trawl fish (Pacific cod, flounders, hake, Pacific ocean perch, Alaska pollock, and rockfishes) were 4.4 billion pounds valued at \$525.1 million--an increase of 3 percent in quantity and a 6 percent increase in value compared with 1996.

Landings of Alaska pollock decreased 4 percent to 2.5 billion pounds and were 15 percent lower than the 1992-1996 5-year average. Landings of Pacific cod



were 661.3 million pounds -- an increase of 9 percent from 605.3 million pounds in 1996. Pacific hake (whiting) landings were 499.6 million pounds (up 16 percent) valued at \$27.3 million (up 6 percent from 1996). Landings of rockfishes were 117.0 million pounds (up 23 percent) and valued at \$47.9 million (up 23 percent) compared to 1996. The 1997 rockfish landings were 12 percent higher than the 5-year average.

ANCHOVIES. U.S. landings of anchovies were 12.7 million pounds--an increase of 2.8 million pounds (28 percent) compared with 1996. Eighty-two percent of all landings were used for animal food or reduction and 12 percent were used for bait.

HALIBUT. U.S. landings of Atlantic and Pacific halibut were 69.9 million pounds (round weight) valued at \$117.4 million--an increase of 20.8 million pounds (42 percent) and \$33.9 million (41 percent) compared with

1996. The Pacific fishery accounted for all but 30,000 pounds of the 1997 total halibut catch. The average exvessel price per pound in 1997 was \$1.68 compared with \$1.70 in 1996.

HERRING, SEA. U.S. commercial landings of sea herring were 347.9 million pounds valued at \$40.9 million--an increase of 30.3 million pounds (9 percent) and a decrease of \$40.1 million (49 percent) compared with 1996. Landings of Atlantic sea herring were 211.0 million pounds valued at \$11.5 million--an increase of 13.9 million pounds (7 percent) and \$349,000 (3 percent) compared with 1996.

Landings of Pacific sea herring were 136.9 million pounds valued at \$29.3 million--an increase of 16.4 million pounds (14 percent) but a decrease of \$40.4



million (58 percent) compared with 1996. Alaska landings accounted for 84 percent of the Pacific coast with 115.5 million pounds valued at \$15.9 million--an increase of 8.1 million pounds (8 percent) and a decrease of \$38.9 million (71 percent) compared with 1996.

JACK MACKEREL. California accounted for 100 percent of the U.S. landings of jack mackerel in 1997. Total landings were 2.6 million pounds valued at \$281,000--a decrease of 2.2 million pounds (47 percent), and \$15,000 (5 percent) compared with 1996. The 1997 average exvessel price per pound rose to 11 cents.

REVIEW

IMPORTANT SPECIES

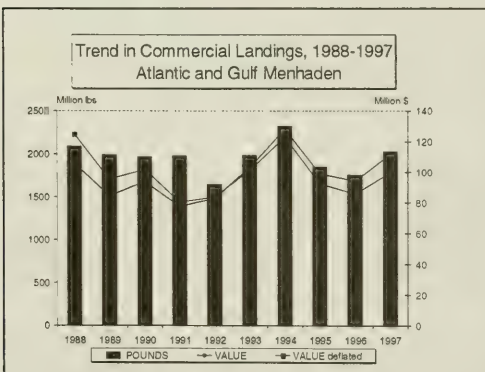
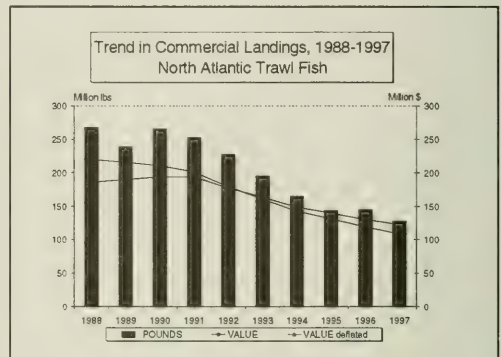
MACKEREL, ATLANTIC. U.S. landings of Atlantic mackerel were 33.9 million pounds valued at \$9.5 million--a decrease of 861,000 pounds (2 percent), but an increase of \$4.9 million (106 percent) compared with 1996. Rhode Island with 21.3 million pounds and New Jersey with 9.5 million pounds accounted for 91 percent of the total landings. The average exvessel price per pound in 1997 was 28 cents, up from 13 cents in 1996. The price increase was due to Rhode Island and New Jersey mackerel frozen at sea which provided a higher exvessel price to fishermen.

MACKEREL, CHUB. Landings of Chub mackerel were 40.6 million pounds valued at \$2.8 million--an increase of 18.6 million pounds (84 percent) and \$1.4 million (107 percent) compared with 1996. The average exvessel price per pound was 7 cents, up from 6 cents in 1996.

MENHADEN. The U.S. menhaden landings were 2.0 billion pounds valued at \$112.1 million--an increase of 272.3 million pounds (16 percent) and \$17.9 million (19 percent) compared with 1996. Landings decreased by 15.0 million pounds (2 percent) in the Atlantic states and increased 287.3 million pounds (27 percent) in the Gulf states compared with 1996. Landings along the Atlantic

production of meal, oil, and solubles. Small quantities are used for bait and animal food.

NORTH ATLANTIC TRAWL FISH. Landings of butterfish, Atlantic cod, cusk, flounders (winter/blackback, summer/fluke, yellowtail and other), haddock, red and white hake, ocean perch, pollock and whiting (silver hake) in the North Atlantic (combination of New England, Middle Atlantic, and Chesapeake Regions) were 116.0 million pounds valued at \$108.1



million--a decrease of 18.6 million pounds (14 percent) and a decrease of \$7.0 million (6 percent) compared with 1996. Of these species, flounder led in total value in the North Atlantic, accounting for 53 percent of the total; followed by cod, 23 percent; and whiting, 7 percent.

The 1997 landings of Atlantic cod were 28.6 million pounds valued at \$24.5 million--a decrease of 2.8 million pounds (9 percent) and \$2.1 million (8 percent) compared with 1996. The exvessel price per pound was 93 cents in 1997 up from 85 cents per pound in 1996.

Landings of yellowtail flounder were 6.3 million pounds--an increase of 1.0 million pounds (19 percent) from 1996, and about 14 percent lower than its 5-year average.

coast were 656.7 million pounds valued at \$40.0 million. Gulf region landings were 1.4 billion pounds valued at \$72.0 million. Menhaden are used primarily for the

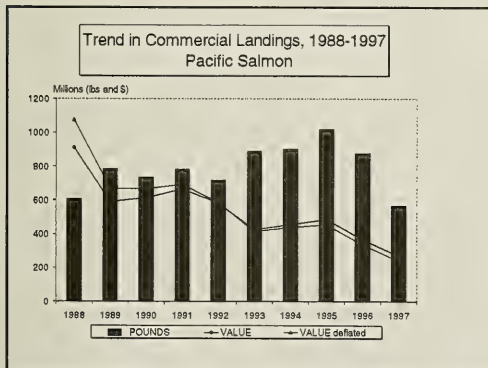
Haddock landings increased to 3.3 million pounds (164 percent) and \$3.6 million (141 percent) when compared with 1996.

REVIEW

IMPORTANT SPECIES

North Atlantic pollock landings were 9.4 million pounds valued at \$5.3 million--an increase of 2.9 million pounds (44 percent) and \$0.9 million (18 percent) compared with 1996.

PACIFIC SALMON. U.S. commercial landings of salmon were 567.7 million pounds valued at \$270.4 million--a decrease of 309.4 million pounds (35 percent), and \$98.3 million (27 percent) compared with 1996. Alaska and Washington accounted for 94 percent and 4 percent of the total landings, respectively. Sockeye salmon landings were 192.5 million pounds valued at \$177.3 million--a decrease of 125.9 million pounds (40 percent), and \$89.1 million (33 percent) compared with 1996. Chinook salmon landings increased to 21.8 million pounds--up 1.3 million pounds (6 percent) from 1996. Pink salmon landings were 227.0 million pounds--a decrease of 82.8 million pounds (27 percent); chum salmon decreased to 103.1 million pounds (43 percent); and coho salmon decreased to 23.3 million pounds--a decrease of 24.4 million pounds (51 percent) compared with 1996.



Alaska landings were 537.9 million pounds valued at \$247.8 million--a decrease of 316.9 million pounds (37 percent), and \$104.6 million (30 percent) compared with 1996. The distribution of Alaska salmon landings by species in 1997 was: sockeye, 185.5 million pounds (34 percent); pink, 219.9 million pounds (41 percent); chum, 98.9 million pounds (18 percent); coho, 22.3 million pounds (4 percent); and chinook, 11.2 million pounds (2 percent). The exvessel price per

pound for all species in Alaska was 46 cents in 1997--an increase of 5 cents from 1996.

Washington salmon landings were 20.7 million pounds valued at \$12.3 million--an increase of 6.5 million pounds (46 percent), and \$5.4 million (78 percent) compared with 1996. The biennial fishery for pink salmon went from no catch in 1996 to 7.1 million pounds in 1997. Washington landings of sockeye salmon were 6.9 million pounds (up 245 percent); followed by chum salmon, 4.2 million pounds--a decrease of 2.7 million pounds (down 39 percent); silver, 824,000 pounds (down 67 percent); and chinook, 1.7 million pounds (down 38 percent) compared with 1996. The average exvessel price per pound for all species in Washington increased from 48 cents in 1996 to 59 cents in 1997.

Oregon salmon landings were 2.2 million pounds valued at \$2.8 million--a decrease of 588,000 pounds (21 percent) and \$516,000 (16 percent) compared with 1996. Landings of chinook salmon were 2.1 million pounds (down 20 percent) and coho with 151,000 pounds (down 30 percent). The average exvessel price per pound for all species in Oregon increased from \$1.16 in 1996 to \$1.24 in 1997.

California salmon landings were 6.1 million pounds valued at \$7.3 million--an increase of 1.4 million pounds (28 percent) and \$1.3 million (22 percent) compared with 1996. Landings of chinook salmon were 6.1 million pounds; coho landings were 6,000 pounds. The average exvessel price per pound paid to fishermen in 1997 was \$1.20 compared with \$1.26 in 1996.

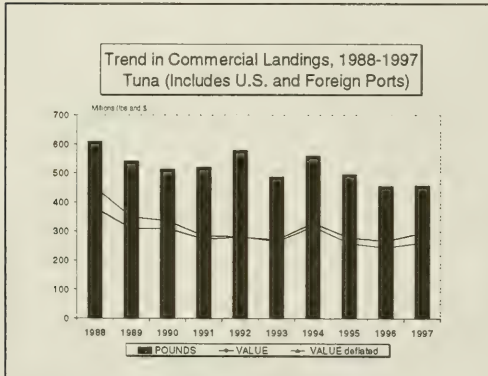
SABLEFISH. U.S. commercial landings of sablefish were 52.9 million pounds valued at \$108.8 million--a decrease of 7.0 million pounds (12 percent) and a decrease of \$232,000 (less than 1 percent) compared with 1996. Landings decreased in Alaska to 35.1 million pounds, a decrease of 14 percent compared with 1996. Landings increased in Washington to 5.0 million pounds (1 percent) and \$9.7 million (up 15 percent). The 1997 Oregon catch was 6.5 million pounds (down 8 percent) and \$10.4 million (up 3 percent) compared with 1996. California landings of 6.4 million pounds and \$8.9 million represent a 9 percent decrease in quantity and a 3 percent increase in value from 1996. The average exvessel price per pound in 1997 was \$2.06 compared with \$1.82 in 1996.

REVIEW

IMPORTANT SPECIES

TUNA. Landings of tuna by U.S. fishermen at ports in the 50 United States, Puerto Rico, American Samoa, other U.S. territories, and foreign ports were 456.6 million pounds valued at \$294.3 million--an increase of 300,000 pounds (less than 1 percent) and \$28.2 million (11 percent) compared with 1996. The average exvessel price per pound of all species of tuna in 1997 was 64 cents compared with 58 cents in 1996.

Bigeye landings in 1997 were 14.7 million pounds--an increase of 300,000 pounds (2 percent) compared with 1996. The average exvessel price per pound was \$1.69 in 1997 compared with \$1.91 in 1996.



Skipjack landings were 247.3 million pounds--a decrease of 36.1 million pounds (13 percent) compared with 1996. The average exvessel price per pound was 45 cents in 1997, compared to 40 cents in 1996.

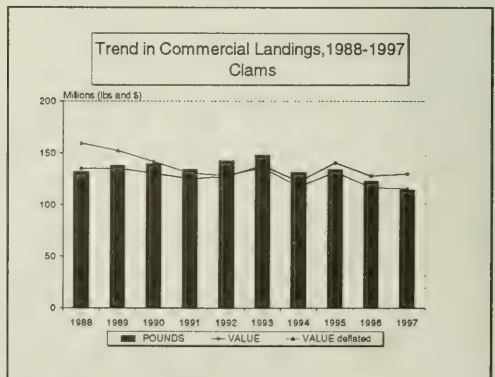
Yellowfin landings were 141.6 million pounds--an increase of 37.6 million pounds (36 percent) compared with 1996. The average exvessel price per pound was 72 cents in 1997 compared with 64 cents in 1996.

Bluefin landings were 7.3 million pounds--a decrease of 4.8 million pounds (40 percent) compared with 1997. The average exvessel price per pound in 1997 was \$2.78 compared with \$1.80 in 1996.

CLAMS. Landings of all species yielded 114.2 million pounds of meats valued at \$129.7 million--a decrease of 9.1 million pounds (7 percent), but an increase of \$1.9 million (1 percent) in value compared with 1996. The average exvessel price per pound in 1997 was \$1.14 compared with \$1.04 in 1996.

Surf clams yielded 58.0 million pounds of meats valued at \$35.2 million--a decrease of 5.4 million pounds (9 percent) and \$3.0 million (8 percent) compared with 1996. New Jersey was the leading state with 45.6 million pounds (down 6 percent), followed by New York, 6.9 million pounds (down 10 percent) compared with 1996. The average exvessel price per pound of meats was 61 cents in 1997, up one cent from 1996.

The ocean quahog fishery produced 43.9 million pounds of meats valued at \$19.9 million--a decrease of 2.5 million pounds (5 percent) and \$623,000 (3 percent) compared with 1996. New Jersey had landings of 18.3 million pounds (up 3 percent) valued at \$7.6 million (up 4 percent) while Massachusetts production was 20.4 million pounds (up 17 percent) valued at \$8.6 million (up 17 percent). Together, they accounted for 88 percent of the total ocean quahog production in 1997. The average exvessel price per pound of meats increased from 44 cents in 1996 to 45 cents in 1997.



IMPORTANT SPECIES

The hard clam fishery produced 7.7 million pounds of meats valued at \$41.9 million--a decrease of 2.3 million pounds (23 percent) and \$7.5 million (15 percent) compared with 1996. Landings in the New England region were 1.5 million pounds of meats (unchanged); Middle Atlantic region, 4.6 million pounds (unchanged); Chesapeake region, 687,000 pounds (down 14 percent); and the South Atlantic region, 993,000 pounds (down 44 percent). The average exvessel price per pound of meats increased from \$4.94 in 1996 to \$5.43 in 1997.

Soft clams yielded 2.3 million pounds of meats valued at \$9.9 million--an increase of 99,000 pounds (5 percent) and \$1.7 million (20 percent) compared with 1996. Maine was the leading state with 1.8 million pounds of meats (down 16 percent) followed by New York with 271,000 pounds (up 32 percent) and Maryland with 249,000 pounds (down 22 percent). The average exvessel price per pound of meats was \$4.32 in 1997 compared with \$3.75 in 1996.

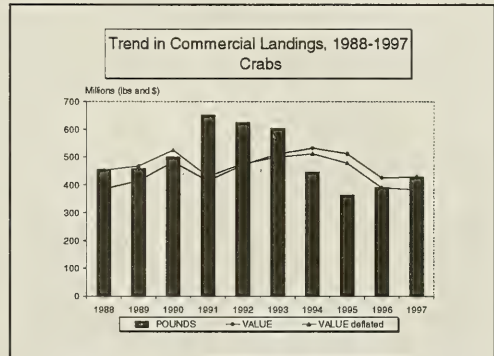
CRABS. Landings of all species of crabs were 430.0 million pounds valued at \$429.5 million--an increase of 38.2 million pounds (10 percent), and \$2.8 million (1 percent) compared with 1996.

Hard blue crab landings were 230.8 million pounds valued at \$158.2 million--an increase of 11.9 million pounds (5 percent) and \$11.1 million (8 percent) compared with 1996. North Carolina landed 25 percent of the total; Maryland, 19 percent; Louisiana, 19 percent; and Virginia, 18 percent of the total U.S. landings. Hard blue crab landings in the Chesapeake region were 87.4 million pounds--an increase of 28 percent; the South Atlantic region with 75.3 million pounds decreased 13 percent; and the Gulf region, 61.2 million pounds, increased 7 percent. The Middle Atlantic region with 10.6 million pounds valued at \$7.3 million had an increase of 3.4 million pounds (48 percent) compared with 1996. The average exvessel price per pound of hard blue crabs was 69 cents in 1997, two cents more than in 1996.

Dungeness crab landings were 38.2 million pounds valued at \$75.7 million--a decrease of 26.8 million pounds (41 percent) and \$12.2 million (14 percent) compared with 1996. Washington landings of 15.7 million pounds (down 43 percent) led all states with 41 percent of the total landings. California landings were

10.0 million pounds (down 19 percent) compared with 1996. Oregon landings were 7.7 million pounds (down 60 percent) and Alaska landings were 4.9 million pounds (down 17 percent) compared with 1996. The average exvessel price per pound was \$1.98 in 1997 compared with \$1.35 in 1996.

U.S. landings of king crab were 18.0 million pounds valued at \$50.6 million--a decrease of 3.0 million pounds (14 percent) and \$12.0 million (19 percent) compared with 1996. The average exvessel price per pound in 1997 was \$2.81 compared with \$2.98 in 1996.



Snow (tanner) crab landings were 118.9 million pounds valued at \$95.7 million--an increase of 51.0 million pounds (43 percent) and \$2.4 million (3 percent) compared with 1996. The average exvessel price per pound was 80 cents in 1997, down from \$1.37 in 1996.

LOBSTER, AMERICAN. American lobster landings were 83.9 million pounds valued at \$267.2 million--an increase of 12.3 million pounds (17 percent), and \$25.4 million (11 percent) compared with 1996. Maine led in landings for the sixteenth consecutive year with 46.8 million pounds valued at \$137.5 million--an increase of 10.8 million pounds (30 percent) compared with 1996. Massachusetts, the second leading producer, had landings of 14.9 million pounds valued at

IMPORTANT SPECIES

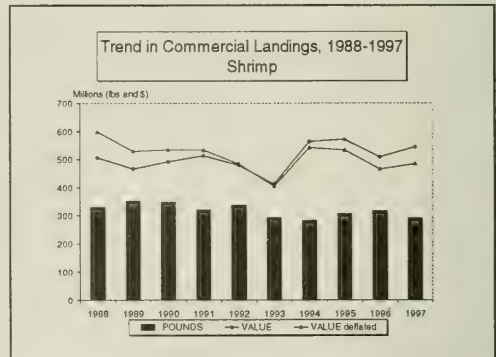
\$52.1 million--a decrease of 800,000 pounds (5 percent) compared with 1996. Together, Maine and Massachusetts produced 73 percent of the total national landings. The average exvessel price per pound was \$3.18 in 1997 compared with \$3.38 in 1996.

LOBSTERS, SPINY. U.S. landings of spiny lobster were 7.2 million pounds valued at \$33.4 million--a decrease of 1.1 million pounds (13 percent) and \$1.8 million (5 percent) compared with 1996. Florida, with landings of 6.1 million pounds valued at \$25.4 million, accounted for 85 percent of the total catch and 76 percent of the value. This was a decrease of 1.3 million pounds (18 percent), and \$3.2 million (12 percent) compared with 1996. Overall the average exvessel price per pound was \$4.61 in 1997 compared with \$4.24 in 1996.

OYSTERS. U.S. oyster landings yielded 39.7 million pounds of meats valued at \$111.2 million -- an increase of 1.6 million pounds (4 percent), but a decrease of \$3.7 million (3 percent) compared with 1996. The Gulf region led in production with 23.2 million pounds of meats, 58 percent of the national total; followed by the Pacific region (principally Washington, with 89 percent of the region's total volume) with 8.9 million pounds (22 percent), and the New England region, with 4.2 million pounds (11 percent). The average exvessel price per pound of meats was \$2.80 in 1997 compared with \$3.02 in 1996.

SHRIMP. U.S. landings of shrimp were 290.3 million pounds valued at \$544.1 million--a decrease of 26.6 million pounds (8 percent), but an increase of \$34.9 million (7 percent) in value compared with 1996. Shrimp landings decreased in the South Atlantic (down 37 percent) and New England (down 33 percent), and were down 6 percent in the Gulf. The landings in the Pacific increased 22 percent when compared with 1996. The average exvessel price per pound of shrimp increased to \$1.87 in 1997 compared with \$1.61 in 1996. Gulf region landings were the nation's largest with 205.5 million pounds, and 71 percent of the national total. Louisiana led all Gulf states with 93.2 million pounds (up 3

percent), followed by Texas, 71.3 million pounds (down 6 percent); Florida (West Coast), 19.7 million pounds (down 23 percent); Alabama, 11.6 million pounds (down 30 percent); and Mississippi, 9.7 million pounds (down 2 percent). In the Pacific region, Oregon had landings of 19.6 million pounds (up 25 percent), California had 15.3 pounds (up 31 percent), and Washington had landings of 6.1 million pounds (down 10 percent) compared with 1996.



SCALLOPS. U.S. landings of bay, calico and sea scallops totaled 15.5 million pounds of meats valued at \$94.2 million -- a decrease of 2.7 million pounds (17 percent), and \$7.7 million (8 percent) compared with 1996. The average exvessel price per pound of meats increased from \$5.60 in 1996 to \$6.09 in 1997.

Bay scallop landings were 72,000 pounds of meats valued at \$310,000--an increase of 37,000 pounds (106 percent) and \$216,000 (230 percent) compared with 1996. The average exvessel price per pound of meats was \$4.31 in 1997 compared with \$2.68 in 1996.

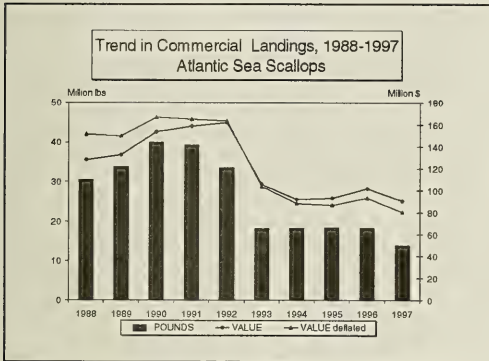
Sea scallop landings were 13.8 million pounds of meats valued at \$90.3 million--a decrease of 4.4 million pounds (24 percent) and \$11.5 million (11 percent) compared with 1996. Massachusetts and Virginia were the leading states in landings of sea scallops with 7.1 and 3.3 million pounds of meats,

REVIEW

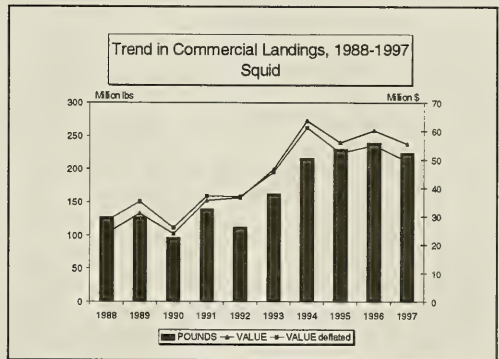
IMPORTANT SPECIES

respectively. These represent 75 percent of the national total. The average exvessel price per pound of meats in 1997 was \$6.55 compared with \$5.61 in 1996.

Florida accounted for the total landings of calico scallops with 1.6 million pounds valued at \$3.6 million in 1997.



percent) compared with 1996. California was the leading state with 156.4 million pounds, 70 percent of the national total. The Pacific region landings were 157.6 million pounds (down 10 percent), followed by the Middle Atlantic, 33.2 million pounds (up 11 percent); New England, 31.8 million pounds (down 7 percent); and the South Atlantic region, 840,000 pounds (up 300 percent) compared with 1996. The average exvessel price per pound for squid was 25 cents in 1997, unchanged from 1996.



SQUID. U.S. commercial landings of squid were 223.8 million pounds valued at \$55.5 million--a decrease of 16.3 million pounds (7 percent) and \$4.7 million (8



REVIEW

PER CAPITA CONSUMPTION

The NMFS calculation of per capita consumption is based on a "disappearance" model. The total U.S. supply of imports and landings is converted to edible weight and decreases in supply such as exports and inventories are subtracted out. The remaining total is divided by a population value to estimate per capita consumption. Data for the model are derived primarily from secondary sources and are subject to incomplete reporting; changes in source data or invalid model assumptions may each have a significant effect on the resulting calculation.

U.S. per capita consumption of fish and shellfish was 14.6 pounds (edible meat) in 1997. This total was 0.2 pounds less than the 14.8 pounds consumed in 1996. Per capita consumption of fresh and frozen products was 9.9 pounds, 0.1 pound less than 1996.

Fresh and frozen finfish accounted for 6.1 pounds while fresh and frozen shellfish consumption was 3.8 pounds per capita. The fresh and frozen finfish includes approximately 0.9 pound of farm raised catfish. Consumption of canned fishery products was 4.4 pounds per capita in 1997, a decrease of 0.1 pound from 1996. Cured fish accounted for 0.3 pound per capita, the same as in previous years. Imports of edible seafood made up 61 percent of the consumption.

PER CAPITA USE. Per capita use is based on the supply of fishery products, both edible and non-edible (industrial), on a round-weight equivalent basis without considering beginning or ending stocks, defense purchases, or exports. The per capita use of all edible and industrial fishery products in 1997 was 63.9 pounds, up 1.8 pounds compared with 1996.



REVIEW

PROCESSED FISHERY PRODUCTS

FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 1997 the U.S. production of raw (uncooked) fish fillets and steaks, including blocks, was 397.5 million pounds--25.8 million pounds less than the 423.3 million pounds in 1996. These fillets and steaks were valued at \$908.9 million--\$4.9 million more than 1996. Alaska pollock fillets and blocks led all species with 112.0 million pounds--28 percent of the total. Production of groundfish fillets and steaks (see Glossary Section-Groundfish) was 219.5 million pounds compared with 245.4 million pounds in 1996.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 264.7 million pounds valued at \$349.6 million compared with the 1996 production of 279.2 million pounds valued at \$362.3 million--a decrease of 14.5 million pounds and \$12.7 million.

The total production of fish sticks amounted to 69.1 million pounds valued at \$64.3 million--an increase of 3.9 million pounds and \$8.5 million compared with 1996. The total production of fish portions amounted to 195.6 million pounds valued at \$285.3 million --

a decrease of 18.4 million pounds and \$21.2 million compared with 1996.

BREADED SHRIMP. The production of breaded shrimp in 1997 was 117.0 million pounds valued at \$333.3 million, compared with the 1996 production of 108.5 million pounds valued at \$341.8 million.

FROZEN FISHERY TRADE. In 1997, stocks of frozen fishery products in cold storage were at a low of 318.4 million pounds on February 28 and a high of 507.8 million pounds on October 31. Cold storage holdings of shrimp products were at a high of 47.7 million pounds on December 31 and a low of 29.0 million pounds on July 31. Holdings of saltwater fillets and steaks reached a high of 88.7 million pounds on July 31 and were at a low of 64.5 million pounds on January 31. Holdings of blocks and slabs were at a high of 60.3 million pounds on December 31 and a low of 41.4 million pounds on February 28. Surimi reached a high of 19.8 million pounds on November 30 and was at a low of 11.2 million pounds on July 31. Analog Products reached a high of 4.8 million pounds on January 31 and a low of 3.4 million pounds on December 31.



REVIEW

PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS. The pack of canned fishery products in the 50 states, American Samoa, and Puerto Rico was 1.6 billion pounds valued at \$1.6 billion—a decrease of 311.9 million pounds, and \$206.7 million compared with the 1996 pack. The 1997 pack included 952.8 million pounds valued at \$1.4 billion for human consumption and 612.3 million pounds valued at \$231.8 million for bait and animal food.

CANNED SALMON. The 1997 U.S. pack of salmon was 162.1 million pounds valued at \$252.8 million, compared with 197.2 million pounds valued at \$284.3 million packed in 1996.

CANNED SARDINES. The pack of Maine sardines (small herring) was 16.0 million pounds valued at \$29.0 million, a decrease of 1.7 million pounds and \$830,000 compared with 1996. There were 5.9 million pounds of herring valued at \$11.2 million packed in 1997 -- 362,000 pounds less, but \$346,000 more in value than the 1996 pack.

CANNED TUNA. The U.S. pack of tuna was 627.0 million pounds valued at \$918.7 million—a decrease of 48.8 million pounds in quantity and \$38.2 million in value compared with the 1996 pack. The pack of

albacore tuna was 185.3 million pounds--19.7 million pounds more than the 165.6 million pounds produced in 1996. Albacore tuna comprised 30 percent of the tuna pack in 1997. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 441.7 million pounds--68.4 million pounds less than the 510.2 million pounds packed in 1996.

CANNED CLAMS. The 1997 U.S. pack of clams (whole, minced, chowder, juice, and specialties) was 124.9 million pounds valued at \$114.6 million—a decrease of 4.5 million pounds and \$2.7 million less in value than the pack in 1996. The pack of whole and minced clams was 43.7 million pounds--2.2 million pounds more than the 1996 pack and accounted for 35 percent of the total clam pack. Clam chowder and clam juice was 69.9 million pounds and made up the majority of the pack.

CANNED SHRIMP. The U.S. pack of natural shrimp was 1.2 million pounds valued at \$4.6 million—an increase of 349,000 pounds, but a decrease of \$1.5 million in value compared with the 1996 pack.

OTHER CANNED ITEMS. The pack of pet food was 612.3 million pounds valued at \$231.8 million—a decrease of 211.8 million pounds compared with the 1996 pack.



REVIEW

PROCESSED FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS

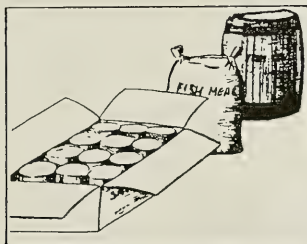
INDUSTRIAL FISHERY PRODUCTS. The value of the domestic production of industrial fishery products was \$347.4 million—an increase of \$73.8 million compared with the 1996 value of \$273.6 million.

FISH MEAL. The domestic production of fish and shellfish meal was 724.7 million pounds valued at \$173.9 million—an increase of 81.5 million pounds, and \$36.0 million compared with 1996. Menhaden meal production was 478.5 million pounds valued at \$115.7 million—an increase of 59.6 million pounds and \$28.9 million compared with 1996. Menhaden accounted for 66 percent of the 1997 production of meal. Shellfish meal production was 18.1 million pounds—an increase of 476,000 pounds from the 1996 level. Tuna and mackerel meal production was 56.1 million pounds—a decrease of 662,000 pounds from 1996. Production of unclassified meal (consisting mainly of Alaska pollock and unclassified fish) was 171.9 million pounds—an increase of 22.1 million pounds compared with 1996.

FISH SOLUBLES. Domestic production of fish solubles was 144.0 million pounds, 62.0 million pounds more than the 1996 production.

FISH OILS. The domestic production of fish oils was 283.4 million pounds valued at \$55.3 million—an increase of 35.0 million pounds, and \$11.3 million in value compared with 1996 production. The production of menhaden oil was 278.0 million pounds valued at \$53.7 million—an increase of 31.5 million pounds, and \$10.0 million compared with 1996. Menhaden oil accounted for 98 percent of the volume and value of the total 1997 fish oil production.

OTHER INDUSTRIAL PRODUCTS. Oyster shell products, together with agar-agar, animal feeds, crab and clam shells processed for food serving, fish pellets, Irish moss extracts, kelp products, dry and liquid fertilizers, pearl essence, and mussel shell buttons were valued at \$108.6 million, compared with \$85.6 million in 1996—an increase of \$23.0 million.



REVIEW

FOREIGN TRADE IN FISHERY PRODUCTS

IMPORTS. U.S. imports of edible fishery products in 1997 were valued at \$7.8 billion, \$1.0 billion more than in 1996. The quantity of edible imports was 3.3 billion pounds, 169.1 million pounds more than the quantity imported in 1996.

Edible imports consisted of 2.9 billion pounds of fresh and frozen products valued at \$7.0 billion, 387.1 million pounds of canned products valued at \$525.3 million, 69.0 million pounds of cured products valued at \$131.6 million, 4.3 million pounds of caviar and roe products valued at \$31.2 million, and 16.9 million pounds of other products valued at \$44.2 million.

The quantity of shrimp imported in 1997 was 648.3 million pounds, 65.9 million pounds more than the quantity imported in 1996. Valued at \$2.9 billion, shrimp imports accounted for 37 percent of the value of total edible imports. Imports of fresh and frozen tuna were 438.5 million pounds, 90.2 million pounds less than the 528.7 million pounds imported in 1996. Imports of canned tuna were 212.2 million pounds, 19.1 million pounds more than in 1996. Imports of fresh and frozen fillets and steaks amounted to 514.8 million pounds, an increase of 38.3 million pounds from 1996. Regular and minced block imports were 234.0 million pounds, a decrease of 238,000 pounds from 1996.

Imports of nonedible fishery products were valued at \$6.8 billion--an increase of \$443.3 million

compared with 1996. The total value of edible and nonedible products was \$14.5 billion in 1997, \$1.4 billion more than in 1996 when \$13.1 billion of fishery products were imported.

EXPORTS. U.S. exports of edible fishery products were 2.0 billion pounds valued at \$2.7 billion, a decrease of 93.2 million pounds, and \$319.2 million when compared with 1996. Fresh and frozen items were 1.8 billion pounds valued at \$2.1 billion, a decrease of 29.6 million pounds, and \$189.8 million compared with 1996. In terms of individual species, fresh and frozen exports consisted principally of 189.9 million pounds of salmon valued at \$307.5 million, 310.2 million pounds of surimi valued at \$331.0 million and 47.2 million pounds of lobsters valued at \$208.6 million.

Canned items were 129.5 million pounds valued at \$202.7 million. Salmon was the major canned item exported, with 81.6 million pounds valued at \$135.4 million. Cured items were 10.6 million pounds valued at \$20.9 million. Caviar and roe exports were 90.0 million pounds valued at \$369.1 million.

Exports of nonedible products were valued at \$6.6 billion compared with \$5.6 billion in 1996. Exports of fish meal amounted to 216.3 million pounds valued at \$57.2 million. The total value of edible and nonedible exports was \$9.4 billion--an increase of \$700.2 million compared with 1996.



U.S. DOMESTIC LANDINGS, BY SPECIES, 1996 AND 1997 (1)

Species	1996			1997			Average (1992-96)
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Fish							
Alewives.....	975	442	198	1,160	526	193	1,962
Anchovies.....	9,933	4,506	988	12,738	5,778	827	9,704
Atka mackerel.....	194,070	88,030	29,111	131,258	59,538	6,999	153,623
Bluefish.....	9,356	4,244	3,166	9,307	4,222	2,849	9,905
Blue runner.....	263	119	138	352	160	198	1,158
Bonito.....	1,339	607	425	993	450	405	1,987
Butterfish.....	9,685	4,393	5,847	7,544	3,422	5,112	7,688
Catfish and bullheads.	9,062	4,110	4,411	15,150	6,872	9,615	11,026
Chubs.....	3,014	1,367	1,873	3,070	1,393	1,551	4,141
Cod:							
Atlantic.....	31,422	14,253	26,634	28,619	12,981	24,464	42,298
Pacific.....	605,314	274,569	111,978	661,314	299,970	142,429	538,065
Crevalle (jack).....	299	136	209	593	269	378	125
Croaker:							
Atlantic.....	19,950	9,049	7,069	27,413	12,434	8,834	11,901
Pacific (white).....	533	242	317	368	167	224	582
Cusk.....	1,031	468	664	977	443	563	2,350
Dolphinfish.....	1,629	739	2,620	1,970	894	2,640	1,626
Eels, American.....	973	441	2,712	1,069	485	6,592	1,134
Flounders:							
Arrowtooth.....	23,495	10,657	1,500	13,934	6,320	831	26,913
Winter (blackback)...	12,537	5,687	15,421	12,710	5,765	16,167	10,931
Plaice, American....	9,693	4,397	12,365	8,680	3,937	11,405	11,696
Summer (fluke).....	16,793	7,617	28,027	8,784	3,984	16,331	19,198
Sole:							
Dover.....	-	-	-	27,210	12,342	7,255	-
Flathead.....	25,114	11,392	7,534	28,367	12,867	2,773	14,642
Witch (gray).....	4,591	2,082	7,728	3,913	1,775	6,570	5,215
Petrale.....	-	-	-	4,270	1,937	3,852	-
Rock.....	57,764	26,202	6,760	72,205	32,752	10,354	81,560
Yellowfin.....	223,445	101,354	42,471	329,150	149,301	25,694	236,001
Yellowtail.....	5,297	2,403	7,639	6,313	2,864	9,477	7,305
Atlantic/Gulf, Other	578	262	833	4,969	2,254	9,196	---
Pacific, Other.....	80,220	36,388	23,771	45,848	20,797	10,864	---
Total, flounders..	459,527	208,440	154,049	566,353	256,896	130,769	510,953
Goosefish (anglerfish)	53,357	24,203	29,627	60,640	27,506	34,591	45,553
Groupers.....	9,703	4,401	22,409	10,276	4,661	23,665	11,400
Haddock.....	1,257	570	1,494	3,316	1,504	3,595	1,981
Hake:							
Pacific (whiting)...	430,537	195,290	17,031	499,598	226,616	27,344	362,394
Red.....	2,397	1,087	695	2,929	1,329	790	3,613
Silver (Atl.whiting)	35,400	16,057	13,494	34,248	15,535	15,024	35,239
White.....	7,252	3,289	4,553	4,897	2,221	3,229	12,662
Halibut.....	49,092	22,268	83,468	69,864	31,690	117,362	56,684
Herring:							
Sea:							
Atlantic.....	197,124	89,415	11,194	211,010	95,714	11,543	135,934
Pacific.....	120,434	54,629	69,747	136,861	62,080	29,341	123,989
Thread.....	9,989	4,531	818	16,641	7,548	1,007	9,360
Jack mackerel.....	4,798	2,176	296	2,557	1,160	281	4,373
Lingcod.....	4,972	2,255	2,277	4,164	1,889	2,021	4,772
Mackerel:							
Atlantic.....	34,801	15,786	4,624	33,940	15,395	9,527	21,677
Chub.....	21,994	9,976	1,336	40,558	18,397	2,762	25,803
King and cero.....	4,560	2,068	5,880	5,544	2,515	7,606	4,684
Spanish.....	3,406	1,545	1,778	3,738	1,696	1,933	4,638

See notes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY SPECIES, 1996 AND 1997 (1) - Continued

Species	1996			1997			Average (1992-96)
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Fish - Continued:							
Menhaden:							
Atlantic.....	671,664	304,665	39,677	656,666	297,862	40,009	713,286
Gulf.....	1,083,807	491,612	54,473	1,371,136	621,943	72,041	1,197,439
Total, menhaden...	1,755,471	796,276	94,150	2,027,802	919,805	112,050	1,910,725
Mullets.....	17,026	7,723	12,518	19,637	8,907	13,419	24,650
Ocean perch:							
Atlantic.....	720	327	477	553	251	346	1,254
Pacific.....	46,305	21,004	6,171	43,166	19,580	3,186	40,519
Pollock:							
Atlantic.....	6,529	2,962	4,543	9,372	4,251	5,349	10,052
Walleye (Alaska)....	2,623,131	1,189,844	238,129	2,512,455	1,139,642	242,589	2,962,080
Rockfishes:							
Bocaccio.....	-	-	-	1,596	724	610	-
Canary.....	-	-	-	2,782	1,262	1,369	-
Chilipepper.....	-	-	-	4,079	1,850	1,626	-
Widow.....	-	-	-	17,088	7,751	5,235	-
Yellowtail.....	-	-	-	6,051	2,745	2,227	-
Other.....	94,760	42,983	39,049	85,392	38,734	36,832	-
Total, rockfishes.	94,760	42,983	39,049	116,988	53,065	47,899	104,463
Sablefish.....	59,949	27,193	109,009	52,925	24,007	108,776	70,022
Salmon, Pacific:							
Chinook or king....	20,463	9,282	23,470	21,772	9,876	27,680	22,805
Chum or keta.....	180,573	81,907	29,442	103,163	46,794	22,775	152,836
Pink.....	309,839	140,542	26,723	226,995	102,964	26,470	333,311
Red or sockeye.....	318,443	144,445	266,422	192,460	87,299	177,284	342,890
Silver or coho.....	47,738	21,654	22,672	23,268	10,554	16,161	54,775
Total, salmon....	877,056	397,830	368,729	567,658	257,488	270,370	906,600
Sardines:							
Pacific.....	71,657	32,503	3,053	94,393	42,816	4,071	38,897
Spanish.....	1,258	571	268	1,128	512	279	1,576
Scup or porgy.....	6,895	3,128	7,330	5,718	2,594	7,449	9,711
Sea bass:							
Black (Atlantic)....	4,361	1,978	4,751	3,506	1,590	4,927	3,778
White (Pacific)....	101	46	193	62	28	127	93
Sea trout or weakfish:							
Gray.....	7,189	3,261	4,839	7,314	3,318	4,136	6,860
Spotted.....	1,066	484	1,155	943	428	1,091	1,995
Sand (white).....	168	76	94	161	73	91	275
Shad:							
American.....	3,819	1,732	1,832	3,058	1,387	1,272	3,158
Hickory.....	193	88	51	165	75	43	92
Sharks:							
Dogfish.....	65,342	29,639	11,804	46,345	21,022	7,307	49,298
Other.....	15,345	6,960	10,824	14,934	6,774	8,536	416
Sheepshead (Atlantic)...	3,308	1,500	1,147	3,843	1,743	1,336	4,247
Skates.....	34,052	15,446	6,757	27,845	12,630	4,209	29,399
Smelts.....	1,747	792	895	3,076	1,395	1,075	2,932
Snapper:							
Red.....	4,422	2,006	9,529	5,161	2,341	10,365	3,679
Vermilion.....	-	-	-	1,630	739	3,245	-
Unclassified.....	5,235	2,375	10,155	3,840	1,742	7,884	6,759
Spearfish.....	210	95	230	220	100	190	137

See notes at end of table.

(Continued)

U.S. DOMESTIC LANDINGS, BY SPECIES, 1996 AND 1997 (1) - Continued

Species	1996			1997			Average (1992-96)
Fish - Continued:	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Spot.....	5,631	2,554	2,034	6,775	3,073	2,738	7,203
Striped bass.....	4,712	2,137	8,021	6,176	2,801	8,970	2,589
Swordfish.....	12,879	5,842	36,494	13,586	6,163	33,786	16,481
Tenpounder (ladyfish) ..	-	-	-	1,602	727	505	-
Tilefish.....	3,226	1,463	5,356	4,230	1,919	5,829	4,127
Trout, rainbow.....	371	168	50	303	137	242	563
Tuna:							
Albacore.....	34,053	15,446	30,157	28,824	13,074	24,684	20,716
Bigeye.....	6,254	2,837	23,673	6,985	3,168	21,231	6,165
Bluefin.....	12,148	5,510	21,857	7,265	3,295	20,207	5,598
Little (tunny).....	197	89	53	994	451	359	582
Skipjack.....	14,717	6,676	7,084	15,874	7,200	8,688	11,878
Yellowfin.....	17,484	7,931	27,060	22,524	10,217	34,224	20,977
Unclassified.....	586	266	372	389	176	401	732
Total, tuna.....	85,439	38,755	110,256	82,855	37,583	109,794	66,648
Whitefish, lake.....	11,623	5,272	8,789	12,880	5,842	9,702	11,224
Wolffish, Atlantic.....	801	363	329	682	309	265	1,004
Yellow perch.....	1,568	711	3,822	1,371	622	2,851	2,788
Other marine finfishes.....	78,193	35,468	41,483	66,854	30,325	34,768	---
Other freshwater finfishes.....	11,503	5,218	3,520	15,045	6,824	4,875	---
Total, fish.....	8,272,709	3,752,476	1,790,966	8,397,286	3,808,984	1,722,205	---
Shellfish							
Abalone.....	56	25	2,157	45	20	1,056	96
Clams:							
Quahog (hard).....	9,990	4,531	49,346	7,708	3,496	41,865	13,146
Geoduck (Pacific)....	-	-	-	1,081	490	14,161	-
Manila.....	-	-	-	201	91	1,248	-
Ocean quahog.....	46,460	21,074	20,552	43,940	19,931	19,929	48,813
Softshell.....	2,200	998	8,253	2,299	1,043	9,929	3,162
Surf (Atlantic).....	63,438	28,775	38,220	57,977	26,298	35,185	68,506
Other.....	1,151	522	11,428	978	444	7,369	---
Total, clams.....	123,239	55,901	127,799	114,184	51,794	129,686	135,818
Conch (snails).....	6,669	3,025	3,871	2,258	1,024	2,854	4,391
Crabs:							
Blue: Hard.....	218,960	99,320	147,061	230,830	104,704	158,188	214,305
Soft and peeler	3,525	1,599	11,447	4,021	1,824	12,534	2,667
Dungeness.....	64,988	29,478	87,858	38,202	17,328	75,682	51,193
Jonah.....	736	334	346	1,643	745	806	1,212
King.....	21,000	9,526	62,560	18,028	8,177	50,576	18,284
Snow (tanner):							
Opilio.....	64,380	29,203	85,497	117,090	53,112	92,380	165,716
Bairdi.....	3,487	1,582	7,752	1,808	820	3,317	17,016
Other.....	14,721	6,677	24,184	18,341	8,319	36,064	---
Total, crabs.....	391,797	177,718	426,705	429,963	195,030	429,547	486,227
Crawfish (freshwater) ..	12,541	5,689	10,471	23,140	10,496	12,997	25,650
Horseshoe crab.....	3,522	1,598	1,134	5,748	2,607	1,197	1,527
Lobsters:							
American.....	71,641	32,496	241,796	83,921	38,066	267,216	61,958
Spiny.....	8,308	3,768	35,227	7,240	3,284	33,381	6,897
Mussels, b-A164lue (sea	5,837	2,648	4,248	4,532	2,056	2,288	6,282
Oysters.....	38,007	17,240	114,839	39,652	17,986	111,185	36,832

See notes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY SPECIES, 1996 AND 1997 (1) - Continued

Species	1996			1997			Average (1992-96)
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Shellfish - Continued							
Scallops							
Bay.....	35	16	94	72	33	310	249
Calico, Atlantic....	-	-	-	1,613	732	3,601	603
Sea.....	18,162	8,238	101,823	13,789	6,255	90,291	21,001
Shrimp:							
New England.....	20,978	9,516	15,162	14,010	6,355	11,477	11,188
South Atlantic.....	40,437	18,342	66,366	25,638	11,629	68,655	31,884
Gulf.....	218,559	99,138	401,354	205,517	93,222	436,929	214,614
Pacific.....	36,867	16,723	26,155	45,054	20,436	26,817	49,614
Other.....	38	17	166	36	16	178	39
Total, shrimp.....	316,879	143,735	509,203	290,255	131,659	544,056	307,339
Squid:							
Atlantic:							
Illex.....	37,588	17,050	9,737	30,054	13,632	6,440	37,874
Loligo.....	27,536	12,490	18,661	35,630	16,162	26,476	41,579
Unclassified.....	124	56	116	493	224	427	1,674
Pacific:							
Loligo.....	174,785	79,282	31,712	156,348	70,919	22,056	110,885
Unclassified.....	-	-	-	1,258	571	82	-
Total Squid.....	240,033	108,878	60,226	223,783	101,507	55,481	192,017
Other shellfish.....	10,159	4,608	9,615	7,312	3,317	11,378	---
Total Shellfish..	1,246,885	565,583	1,649,208	1,247,507	565,865	1,696,524	---
Other							
Sea urchins.....	44,932	20,381	44,740	44,568	20,216	39,330	60,974
Seaweed, unclassified.	-	-	-	155,274	70,432	2,443	-
Kelp (w/herring eggs).	362	164	1,799	657	298	3,596	714
Worms.....	-	-	-	492	223	2,507	-
Total other.....	45,294	20,545	46,539	200,991	91,169	47,876	---
Grand total.....	9,564,888	4,338,605	3,486,713	9,845,784	4,466,018	3,466,605	---

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River drainage area States are not available.

(-) Data are not available prior to 1997 for the production of "FUS."

Note:--Metric tons are arrived at by dividing the landings of individual species and group totals by 2.2046. Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels transferred to internal water processing vessels (IWPs) in U.S. waters. Data do not include aquaculture products, except oysters and clams.

DISPOSITION OF U.S. DOMESTIC LANDINGS, 1996 AND 1997

End Use	1996		1997	
	Million pounds	Percent	Million pounds	Percent
Fresh and frozen:				
For human food.....	6,752	70.6	6,558	66.6
For bait and animal food.....	302	3.2	319	3.2
Total.....	8,887	92.9	9,198	93.4
Canned:				
For human food.....	629	6.6	582	5.9
For bait and animal food.....	49	0.5	66	0.7
Total.....	678	7.1	648	6.6
Cured for human food.....	93	1.0	108	1.1
Reduction to meal, oil, etc.....	1,740	18.2	2,213	22.5
Grand total.....	9,565	100.0	9,846	100.0

NOTE:--Data are preliminary. Table may not add due to rounding.

DISPOSITION OF U.S. DOMESTIC LANDINGS, BY MONTH, 1997

Month	Landings for human food		Landings for industrial purposes (1)		Total	
	Million pounds	Percent	Million pounds	Percent	Million pounds	Percent
January.....	379	5.2	86	3.3	465	4.7
February.....	1,378	19.0	58	2.2	1,436	14.6
March.....	666	9.2	42	1.6	708	7.2
April.....	390	5.4	66	2.5	456	4.6
May.....	590	8.1	241	9.3	831	8.4
June.....	425	5.9	395	15.2	820	8.3
July.....	630	8.7	370	14.2	1,000	10.2
August.....	621	8.6	400	15.4	1,021	10.4
September.....	1,115	15.4	422	16.2	1,537	15.6
October.....	638	8.8	318	12.2	956	9.7
November.....	253	3.5	111	4.3	364	3.7
December.....	163	2.2	89	3.4	252	2.6
Total.....	7,248	100.0	2,598	100.0	9,846	100.0

(1) Processed into meal, oil, solubles, and shell products, or used as bait and animal food.

U.S. COMMERCIAL LANDINGS OF FISH AND SHELLFISH, 1988-1997 (1)

Year	Landings for human food		Landings for industrial purposes (2)		Total	
	Million pounds	Million dollars	Millions pounds	Million dollars	Millions pounds	Million dollars
1988.....	4,588	3,362	2,604	158	7,192	3,520
1989.....	6,204	3,111	2,259	127	8,463	3,238
1990.....	7,041	3,366	2,363	156	9,404	3,522
1991.....	7,031	3,169	2,453	139	9,484	3,308
1992.....	7,618	3,531	2,019	147	9,637	3,678
1993.....	*8,214	3,317	2,253	154	10,467	3,471
1994.....	7,936	3,714	2,525	95	10,461	3,809
1995.....	7,667	3,625	2,121	145	9,788	3,770
1996.....	7,474	3,355	2,091	132	9,565	3,487
1997.....	7,248	3,304	2,598	163	9,846	3,467

(1) Statistics on landings are shown in round weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are shown in weight of meats (excluding the shell). All data are preliminary. (2) Processed into meal, oil, solubles, and shell products, or used as bait or animal food. * Record. Record--For industrial purposes 1983, 3,201 million lb.

NOTE:--Data do not include landings outside the 50 States or products of aquaculture, except oysters and clams.

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY STATES, 1996 AND 1997 (1)

States	1996		1997		Record Landings	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Year	Thousand pounds
Alabama.....	26,579	38,342	23,076	38,311	1973	36,744
Alaska.....	5,012,875	1,190,576	4,765,002	1,066,555	1993	5,905,638
California.....	460,681	187,461	648,715	178,336	1936	1,760,193
Connecticut.....	20,949	48,409	19,396	49,515	1930	88,012
Delaware.....	5,958	4,397	8,649	5,325	1953	367,500
Florida.....	134,038	205,203	114,727	209,240	1938	241,443
Georgia.....	13,117	21,114	14,511	27,400	1927	47,607
Hawaii.....	31,870	64,288	36,568	68,693	1993	34,582
Illinois.....	202	415	154	241	-	(2)
Indiana.....	303	736	158	327	-	(2)
Louisiana.....	1,130,639	267,286	1,426,495	318,822	1984	1,931,027
Maine.....	236,567	200,930	244,059	223,244	1950	356,266
Maryland.....	69,179	52,720	76,627	64,321	1890	141,607
Massachusetts.....	236,550	231,380	229,991	214,706	1948	649,696
Michigan.....	14,174	9,228	15,874	9,623	1930	35,580
Minnesota.....	584	221	472	236	-	(2)
Mississippi.....	160,283	32,782	177,782	41,972	1985	439,518
New Hampshire.....	11,047	13,531	10,919	12,577	-	(2)
New Jersey.....	179,306	94,026	168,289	97,898	1956	540,060
New York.....	56,732	83,527	60,013	96,763	1880	335,000
North Carolina.....	193,828	110,057	229,729	101,729	1981	432,006
Ohio.....	4,258	1,984	3,970	2,199	1936	31,083
Oregon.....	264,113	84,186	273,503	80,423	1992	256,912
Pennsylvania.....	311	274	13	11	-	(2)
Rhode Island.....	136,708	69,919	138,693	74,813	1957	142,080
South Carolina.....	15,788	24,067	17,023	31,456	1965	26,611
Texas.....	91,593	190,860	85,650	203,137	1960	237,684
Virginia.....	659,651	106,016	611,515	104,998	1990	786,794
Washington.....	391,741	148,285	438,567	139,648	1994	527,804
Wisconsin.....	5,264	4,493	5,545	4,086	-	(2)
Total.....	9,564,888	3,486,713	9,845,685	3,466,605	-	-

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River drainage area States are not available.

(2) Data not available.

NOTE:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels transferred to internal water processing vessels (IWP) in U.S. waters. Data do not include aquaculture products, except oysters and clams.

U.S. DOMESTIC LANDINGS, BY REGIONS, 1996 AND 1997 (1)

Region	1996		1997	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
New England.....	641,821	564,169	643,158	574,854
Middle Atlantic.....	241,936	181,869	236,951	199,986
Chesapeake.....	728,830	158,736	688,142	169,319
South Atlantic.....	268,990	209,407	298,683	213,385
Gulf.....	1,496,875	680,304	1,790,310	758,682
Pacific Coast and Alaska.....	6,129,410	1,610,508	6,125,787	1,464,962
Great Lakes.....	25,156	17,432	26,185	16,724
Hawaii.....	31,870	64,288	36,568	68,693
Total.....	9,564,888	3,486,713	9,845,784	3,466,605

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River Drainage Area States are not available.

NOTE:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels transferred to internal water processing vessels (IWP) in U.S. waters. Data do not include aquaculture products, except oysters and clams.

COMMERCIAL FISHERY LANDINGS AND VALUE AT MAJOR U.S. PORTS, 1995-1997

Port	Quantity			Port	Value		
	1995	1996	1997		1995	1996	1997
	- Million pounds -				- Million dollars -		
Dutch Harbor-Unalaska, AK . . .	684.6	579.6	587.8	Dutch Harbor-Unalaska, AK . . .	146.2	118.7	122.6
Reedville, VA	(1)	(1)	491.9	New Bedford, MA	86.9	104.4	103.2
Empire-Venice, LA	298.1	316.5	395.9	Kodiak, AK	105.4	82.3	88.6
Cameron, LA	280.0	315.7	379.6	Empire-Venice, LA	51.1	45.4	57.8
Seattle, WA	229.0	241.2	336.1	Key West, FL	66.7	62.8	54.9
Kodiak, AK	362.4	202.7	277.5	Honolulu, HI	46.7	47.9	53.7
Intercoastal City, LA	179.2	199.0	270.8	Point Judith, RI	63.7	46.0	47.6
Morgan City-Berwick, LA	127.4	162.9	222.9	Brownsville-Port Isabel, TX	46.0	60.0	46.1
Los Angeles, CA	168.5	156.9	168.2	Portland, ME	39.4	38.6	43.2
Pascagoula-Moss Point, MS	128.6	148.0	164.7	Dulac-Chauvin, LA	53.4	45.2	42.1
Beaufort-Morehead City, NC	87.0	75.4	128.6	Cameron, LA	27.8	30.6	35.1
Astoria, OR	89.0	107.0	114.8	Kenai, AK	25.3	31.6	32.6
Port Hueneme-Oxnard-Ventura, CA	116.8	138.9	111.9	Los Angeles, CA	27.0	36.6	31.4
Newport, OR	112.0	115.0	107.7	Palacios, TX	21.0	25.0	30.4
New Bedford, MA	70.5	91.4	83.3	Cape May-Wildwood, NJ	30.5	30.9	29.7
Gloucester, MA	61.3	76.9	81.5	Reedville, VA	(1)	(1)	29.5
Point Judith, RI	89.6	79.0	74.9	Petersburg, AK	44.8	36.4	29.3
Portland, ME	66.7	78.3	74.8	Sitka, AK	32.4	33.0	28.2
Cape May-Wildwood, NJ	75.4	82.7	71.1	Hampton Roads Area, VA	26.6	23.7	27.9
Petersburg, AK	83.0	105.0	70.1	Seward, AK	24.3	25.5	27.8
Rockland, ME	44.5	52.7	68.3	Naknek-King Salmon, AK	84.3	(1)	27.6
Ketchikan, AK	116.7	136.8	65.2	Cordova, AK	24.9	27.8	26.4
Cordova, AK	42.5	55.4	59.4	Bayou La Batre, AL	37.5	28.6	25.8
Moss Landings, CA	13.4	25.3	44.6	Golden Meadow-Leeville, LA	31.3	22.1	24.8
Ocean City, MD	12.5	(1)	42.4	Galveston, TX	38.0	37.0	24.2
Naknek-King Salmon, AK	120.9	(1)	41.5	Wanchese-Stumpy Point, NC	25.0	24.6	24.0
Atlantic City, NJ	42.3	40.9	39.0	Port Arthur, TX	22.0	27.0	23.9
Wanchese-Stumpy Point, NC	39.0	43.4	38.1	Beaufort-Morehead City, NC	35.0	20.3	23.7
Kenai, AK	35.0	37.9	36.5	San Francisco Area, CA	15.4	20.4	23.7
Seward, AK	24.4	29.2	32.8	Gloucester, MA	23.2	24.3	23.5
Crescent City, CA	21.8	26.4	32.7	Gulfport, MS	23.3	18.2	23.1
Dulac-Chauvin, LA	123.3	38.3	32.5	Astoria, OR	26.0	28.0	22.4
Point Pleasant, NJ	22.7	22.1	32.4	Seattle, WA	20.3	20.6	22.1
Westport, WA	24.0	45.6	31.3	Port Hueneme-Oxnard-Ventura, CA	26.8	34.8	21.7
Monterey, CA	18.6	24.9	30.7	Delcambre, LA	15.5	16.4	21.6
Honolulu, HI	23.9	22.9	30.2	Newport, OR	22.0	25.0	20.9
San Francisco Area, CA	15.7	19.2	29.4	Atlantic City, NJ	22.2	21.6	20.8
Bellingham, WA	27.0	21.4	24.8	Homer, AK	16.3	18.9	19.9
Homer, AK	23.3	21.8	24.6	Ketchikan, AK	33.6	23.7	19.6
Hampton Roads Area, VA	12.6	11.9	23.6	Westport, WA	25.0	31.0	19.6
Coos Bay-Charleston, OR	21.0	24.0	21.5	Morgan City-Berwick, LA	11.3	14.2	19.1
Sitka, AK	31.0	32.0	21.3	Tampa Bay-St. Petersburg, FL	18.2	20.0	17.6
Eureka, CA	15.1	18.0	19.7	Aransas Pass-Rockport, TX	33.0	24.0	17.4
Key West, FL	23.4	23.7	18.8	Bellingham, WA	15.0	14.0	17.2
Provincetown-Chatham, MA	18.4	17.8	16.8	Point Pleasant, NJ	11.8	13.1	16.8
Golden Meadow-Leeville, LA	18.7	14.1	15.1	Fort Myers, FL	15.9	19.3	16.0
Englehard-Swanquarter, NC	11.0	15.0	14.7	Delacroix-Ysloskey, LA	12.8	10.9	15.8
Delacroix-Ysloskey, LA	9.3	10.1	13.9	Grand Isle, LA	17.8	18.1	15.8
Brownsville-Port Isabel, TX	16.0	22.0	13.8	Cape Canaveral, FL	16.9	17.7	15.6
Fort Bragg, CA	11.8	10.9	13.8	Intercoastal City, LA	10.1	11.1	15.5
Montauk, NY	6.4	8.9	13.6	Freeport, TX	15.0	14.0	15.2
Wrangell, AK	17.2	25.1	13.4	Charleston-Mt. Pleasant, SC	19.0	10.8	14.6
Oriental-Vandemere, NC	9.0	14.0	13.2	Crescent City, CA	11.5	16.8	14.3
Ilwaco-Chinook, WA	18.0	23.9	13.1	Montauk, NY	8.5	10.1	13.5
Hampton Bay-Shinnecock, NY	11.9	11.6	12.9	Pascagoula-Moss Point, MS	12.3	10.4	13.4
Grand Isle, LA	12.6	13.9	12.7	Eureka, CA	10.3	12.3	12.7
Galveston, TX	17.0	21.0	12.5	Apalachicola, FL	10.2	14.1	12.3
Belhaven-Washington, NC	10.0	14.2	12.4	Coos Bay-Charleston, OR	14.0	16.0	12.1
Bayou La Batre, AL	22.1	20.4	12.1	Oriental-Vandemere, NC	10.0	13.3	11.2
Delcambre, LA	8.6	9.3	11.9	Darien-Bellville, GA	11.0	8.7	10.7

(1) Not available or confidential data.

Notes:--To avoid disclosure of private enterprise certain leading ports have not been included. Seattle landings include fish caught by at-sea processing vessels. The record landings for quantity were 848.2 million pounds in Los Angeles, CA in 1960 and for value were \$224.1 million in Dutch Harbor-Unalaska, AK in 1994.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores			High seas or off foreign shores			Grand total
	0 to 3 miles	3 to 200 miles		Thousand pounds		Thousand dollars	
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand dollars
Alewives.....	1,154	192	6	1	-	1,160	193
Anchovies.....	9,586	631	3,152	196	-	12,738	827
Atka mackerel.....	(3)	(3)	131,257	6,999	-	131,257	6,999
Bluefish.....	5,667	1,770	3,640	1,080	-	9,307	2,850
Blue runner.....	305	181	47	17	-	352	198
Bonito.....	175	89	818	316	-	993	405
Butterfish.....	942	559	6,602	4,553	-	7,544	5,112
Catfish & bullheads....	15,150	9,615	-	-	-	15,150	9,615
Chubs.....	3,070	1,551	-	-	-	3,070	1,551
Cod:							
Atlantic.....	300	253	28,320	24,210	-	28,620	24,463
Pacific.....	50,756	10,151	610,558	132,278	-	661,314	142,429
Crevalle.....	247	171	346	207	-	593	378
Croaker:							
Atlantic.....	17,560	5,631	9,853	3,202	-	27,413	8,833
Pacific (white).....	70	42	298	181	-	368	223
Cusk.....	11	6	966	557	-	977	563
Dolphinfish.....	38	50	1,922	2,581	10	1,970	2,641
Eel, American.....	1,055	6,585	14	8	-	1,069	6,593
Flounders:							
Arrowtooth.....	1,059	86	12,875	745	-	13,934	831
Winter (blackback)...	1,636	2,140	11,074	14,028	-	12,710	16,168
Plaice, American.....	677	872	8,004	10,533	-	8,681	11,405
Summer (fluke).....	1,326	2,862	7,458	13,469	-	8,784	16,331
Sole:							
Dover.....	3,939	1,203	23,271	6,052	-	27,210	7,255
Flathead.....	371	49	27,996	2,724	-	28,367	2,773
Witch (gray).....	173	296	3,740	6,274	-	3,913	6,570
Petrale.....	892	813	3,378	3,039	-	4,270	3,852
Rock.....	1,320	267	70,885	10,087	-	72,205	10,354
Yellowfin.....	45	2	329,105	25,692	-	329,150	25,694

(Continued)

See footnote at end of table.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores			High seas or off foreign shores			Grand total	
	0 to 3 miles	3 to 200 miles		Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand dollars
Fish - Continued	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Flounders - Continued:								
Yellowtail.....	205	294	6,108	9,183	-	-	6,313	9,477
Atlantic/Gulf, other..	4,844	9,119	125	77	-	-	4,969	9,196
Pacific, other.....	2,404	793	43,445	10,071	-	-	45,849	10,864
Total flounders...	18,891	18,796	547,464	111,974	-	-	566,355	130,770
Goosefish (anglerfish)...	1,041	671	59,599	33,920	-	-	60,640	34,591
Groupers.....	437	1,015	9,841	22,653	-	-	10,278	23,668
Haddock.....	32	35	3,283	3,560	-	-	3,315	3,595
Hakes:								
Pacific (Whiting).....	-	-	499,598	27,344	-	-	499,598	27,344
Red.....	108	24	2,821	766	-	-	2,929	790
Silver (Atl. whiting) ..	1,546	437	32,702	14,586	-	-	34,248	15,023
White.....	77	51	4,820	3,177	-	-	4,897	3,228
Halibut.....	4,705	8,003	65,513	109,989	14	28	70,232	118,020
Herring:								
Sea:								
Atlantic.....	66,188	3,784	149,237	7,958	-	-	215,425	11,742
Pacific.....	136,861	29,341	-	-	-	-	136,861	29,341
Thread.....	16,641	1,007	-	-	-	-	16,641	1,007
Jack mackerel.....	1,125	124	1,431	157	-	-	2,556	281
Lingcod.....	1,163	565	3,000	1,456	-	-	4,163	2,021
Mackerels:								
Atlantic.....	1,209	422	32,730	9,105	-	-	33,939	9,527
Chub.....	40,543	2,759	16	3	-	-	40,559	2,762
King and cero.....	700	944	4,844	6,663	-	-	5,544	7,607
Spanish.....	1,492	774	2,246	1,159	-	-	3,738	1,933
Menhaden:								
Atlantic.....	656,158	39,944	508	65	-	-	656,666	40,009
Gulf.....	1,063,735	56,201	307,401	15,840	-	-	1,371,136	72,041
Total menhaden....	1,719,893	96,145	307,909	15,905	-	-	2,027,802	112,050
Mullets.....	19,447	13,248	190	171	-	-	19,637	13,419
Ocean perch:								
Atlantic.....	(3)	(3)	553	346	-	-	553	346
Pacific.....	79	5	43,087	3,182	-	-	43,166	3,187

See footnote at end of table.

(Continued)

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)**

Species	Distance from U.S. shores			High seas or off foreign shores		Grand total	
	0 to 3 miles	3 to 200 miles		Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fish - Continued	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand dollars
Pollock:							
Atlantic.....	93	53	9,279	5,296	9,372	5,349	
Walleye (Alaska).....	75,130	7,343	2,437,325	235,246	2,512,455	242,589	
Rockfishes:							
Bocaccio.....	115	50	1,481	560	1,596	610	
Canary.....	101	67	2,681	1,302	2,782	1,369	
Chillipepper.....	1,014	405	3,065	1,221	4,079	1,626	
Widow.....	59	20	17,029	5,215	17,088	5,235	
Yellowtail.....	321	153	5,730	2,074	6,051	2,227	
Other.....	3,157	1,384	82,235	35,448	85,392	36,832	
Total rockfishes..	4,767	2,079	112,221	45,820	116,988	47,899	
Sablefish.....	8,628	18,159	44,297	90,618	52,925	108,777	
Salmon:							
Chinook or king.....	17,802	22,763	3,971	4,917	21,773	27,680	
Chum or keta.....	103,152	22,772	12	3	103,164	22,775	
Pink.....	226,988	26,468	7	1	226,995	26,469	
Red or sockeye.....	192,444	177,266	16	18	192,460	177,284	
Silver or coho.....	22,388	15,159	880	1,002	23,268	16,161	
Total salmon.....	562,774	264,429	4,886	5,941	567,660	270,370	
Sardines:							
Pacific.....	66,075	2,850	28,318	1,221	94,393	4,071	
Spanish.....	1,128	279	-	-	1,128	279	
Scup or porgy.....	2,057	2,823	3,660	4,626	5,717	7,449	
Sea bass:							
Black (Atlantic).....	526	839	2,980	4,088	3,506	4,927	
White (Pacific).....	20	42	42	85	62	127	
Sea trout or weakfish:							
Gray.....	5,442	3,091	1,872	1,045	7,314	4,136	
Spotted.....	942	1,091	-	-	942	1,091	
Sand (white).....	130	81	32	10	162	91	
Shad:							
American.....	2,983	1,231	75	40	3,058	1,271	
Hickory.....	155	42	10	2	165	44	

See footnote at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores				High seas or off foreign shores				Grand total		
	0 to 3 miles		3 to 200 miles		Thousand pounds		Thousand dollars		Thousand pounds	Thousand dollars	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars			
Fish - Continued											
Sharks:											
Dogfish.....	9,061	1,470	37,284	5,837	-	-	46,345	7,307			
Other.....	1,672	767	11,192	6,920	2,070	849	14,934	8,536			
Sheepshead (Atlantic)...	3,829	1,328	14	7	-	-	3,843	1,335			
Skates.....	7,896	1,250	19,949	2,959	-	-	27,845	4,209			
Smelts.....	3,076	1,075	-	-	-	-	3,076	1,075			
Snappers:											
Red.....	211	972	4,950	9,392	-	-	5,161	10,364			
Vermilion.....	7	14	1,623	3,231	-	-	1,630	3,245			
Unclassified.....	744	1,563	3,150	6,438	-	-	3,894	8,001			
Spearfish.....	11	10	143	124	66	57	220	191			
Spot.....	6,730	2,722	45	16	-	-	6,775	2,738			
Striped bass.....	6,034	8,795	142	175	-	-	6,176	8,970			
Swordfish.....	1,186	2,625	9,084	23,985	3,316	7,176	13,586	33,786			
Tenpounder (ladyfish)...	1,571	490	31	14	-	-	1,602	504			
Tilefish.....	3	2	4,227	5,827	-	-	4,230	5,829			
Trout, Rainbow.....	303	242	-	-	-	-	303	242			
Tuna:											
Albacore.....	6	3	20,641	17,696	21,036	17,916	41,683	35,615			
Bigeye.....	15	37	5,107	15,580	9,558	9,244	14,680	24,861			
Bluefin.....	1	3	4,757	18,409	2,507	1,794	7,265	20,206			
Little tunny.....	274	84	720	276	-	-	994	360			
Skipjack.....	249	320	2,254	2,783	244,753	107,221	247,256	110,324			
Yellowfin.....	267	628	9,851	22,830	131,473	77,883	141,591	101,341			
Unclassified.....	13	22	251	330	2,909	1,271	3,173	1,623			
Total tuna.....	825	1,097	43,581	77,904	412,236	215,329	456,642	294,330			
Whitefish, common.....	12,880	9,702	-	-	-	-	12,880	9,702			
Wolfish, Atlantic.....	5	2	677	263	-	-	682	265			
Yellow perch.....	1,371	2,851	-	-	-	-	1,371	2,851			
Other marine finfishes..	33,922	18,995	32,211	14,756	722	1,019	66,855	34,770			
Other freshwater finfishes.....	15,045	4,875	-	-	-	-	15,045	4,875			
Total finfish.....	2,975,497	580,906	5,381,983	1,102,346	418,434	224,468	8,775,914	1,907,720			

(Continued)

See footnote at end of table.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores				High seas or off foreign shores				Grand total	
	0 to 3 miles		3 to 200 miles		Thousand pounds		Thousand dollars			
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars		
Shellfish										
Abalone.....	45	1,056	-	-	-	-	-	45	1,056	
Clams:										
Quahog (hard).....	7,708	41,865	-	-	-	-	7,708	41,865		
Geoduck (Pacific)....	1,081	14,161	-	-	-	-	1,081	14,161		
Manila (Pacific)....	201	1,248	-	-	-	-	201	1,248		
Ocean quahog.....	2,758	1,806	41,181	18,123	-	-	43,939	19,929		
Softshell.....	2,299	9,929	-	-	-	-	2,299	9,929		
Surf (Atlantic).....	21,187	13,987	36,791	21,198	-	-	57,978	35,185		
Other.....	978	7,369	-	-	-	-	978	7,369		
Total clams.....	36,211	90,366	77,972	39,321	-	-	114,193	129,687		
Conch (snails).....	1,891	2,454	368	400	-	-	2,259	2,854		
Crabs:										
Blue: Hard.....	230,804	158,173	26	15	-	-	230,830	158,188		
Soft or peeler..	4,022	12,527	-	-	-	-	4,022	12,527		
Dungeness.....	36,227	71,783	1,974	3,899	-	-	38,201	75,682		
Jonah.....	1,196	592	447	214	-	-	1,643	806		
King.....	702	2,105	17,325	48,471	-	-	18,027	50,576		
Snow (tanner):										
Opilio.....	(3)	1	117,089	92,379	-	-	117,089	92,380		
Bairdi.....	1,808	3,317	-	-	-	-	1,808	3,317		
Other.....	7,057	8,010	11,284	28,054	-	-	18,341	36,064		
Total crabs.....	281,816	256,509	148,145	173,032	-	-	429,961	429,541		
Crawfish, freshwater....	23,140	12,997	-	-	-	-	23,140	12,997		
Horseshoe crab.....	4,811	986	937	211	-	-	5,748	1,197		
Lobsters:										
American.....	72,031	224,872	11,890	42,344	-	-	83,921	267,216		
Spiny.....	2,843	14,936	4,396	18,445	-	-	7,239	33,381		
Mussels, blue (sea)....	4,532	2,288	-	-	-	-	4,532	2,288		
Mussels.....	39,652	111,185	-	-	-	-	39,652	111,185		

(Continued)

See footnote at end of table.

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)**

Species	Distance from U.S. shores				High seas or off foreign shores				Grand total	
	0 to 3 miles		3 to 200 miles		Thousand pounds		Thousand dollars			
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars						
Shellfish - Continued										
Scallops:										
Bay.....	72	310	-	-	-	-	-	72	310	
Calico, Atlantic.....	170	274	1,444	3,327	-	-	1,614	3,601		
Sea.....	812	5,994	12,977	84,297	-	-	13,789	90,291		
Shrimp:										
New England.....	4,211	3,427	9,800	8,050	-	-	14,011	11,477		
South Atlantic.....	22,482	62,832	3,159	5,823	-	-	25,641	68,655		
Gulf.....	118,252	200,510	87,264	236,419	-	-	205,516	436,929		
Pacific.....	30,546	18,966	14,508	7,852	-	-	45,054	26,818		
Other.....	11	51	21	110	3	17	35	178		
Total shrimp.....	175,502	285,786	114,752	258,254	3	17	290,257	544,057		
Squid:										
Atlantic:										
Illex.....	289	80	29,765	6,360	-	-	30,054	6,440		
Loligo.....	3,871	2,933	31,759	23,543	-	-	35,630	26,476		
Unclassified.....	240	213	253	214	-	-	493	427		
Pacific:										
Loligo.....	156,348	22,056	-	-	-	-	156,348	22,056		
Unclassified.....	274	55	984	27	-	-	1,258	82		
Total, squid.....	161,021	25,337	62,761	30,144	-	-	223,782	55,481		
Other shellfish.....	5,860	9,005	1,456	2,373	-	-	7,316	11,378		
Total shellfish.....	810,408	1,044,355	437,098	652,148	3	17	1,247,509	1,696,520		
Other										
Sea urchin.....	44,568	39,330	-	-	-	-	44,568	39,330		
Seaweed, unclassified...	155,274	2,443	-	-	-	-	155,274	2,443		
Kelp (with herring eggs)	657	3,596	-	-	-	-	657	3,596		
Worms.....	492	2,507	-	-	-	-	492	2,507		
Total other.....	200,991	47,876	-	-	-	-	200,991	47,876		
Grand total, 1997	3,986,896	1,673,137	5,819,081	1,754,494	418,437	224,485	10,224,414	3,652,116		
Grand total, 1996	3,079,271	1,653,996	6,475,732	1,800,293	414,416	191,854	9,969,419	3,646,143		

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance-from-shore landings for data collected by the Service and States. (2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River drainage area States. (3) Less than 500 lb or \$500. NOTE:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States and catches by U.S.-flag vessels transferred to internal water processing vessels (IWPS) in U.S. waters. Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. There may also be differences in totals due to rounding. Data do not include aquaculture products, except oysters and clams.

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)**

Species	Distance from U.S. shores				High seas or off foreign shores				Grand Total
	0 to 3 miles		3 to 200 miles		Metric tons		Thousand dollars		
	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	
Fish									
Alwives.....	524	192	3	1	-	-	526	193	
Anchovies.....	4,348	631	1,430	196	-	-	5,778	827	
Atka mackerel.....	(3)	(3)	59,538	6,999	-	-	59,538	6,999	
Bluefish.....	2,571	1,770	1,651	1,080	-	-	4,222	2,850	
Blue runner.....	138	181	21	17	-	-	160	198	
Bonito.....	79	89	371	316	-	-	451	405	
Butterfish.....	427	559	2,995	4,553	-	-	3,422	5,112	
Catfish & bullheads....	6,872	9,615	-	-	-	-	6,872	9,615	
Chubs.....	1,392	1,551	-	-	-	-	1,392	1,551	
Cod:									
Atlantic.....	136	253	12,846	24,210	-	-	12,982	24,463	
Pacific.....	23,023	10,151	276,947	132,278	-	-	299,970	142,429	
Crevaille.....	112	171	157	207	-	-	269	378	
Croaker:									
Atlantic.....	7,965	5,631	4,469	3,202	-	-	12,434	8,833	
Pacific (white).....	32	42	135	181	-	-	167	223	
Cusk.....	5	6	438	557	-	-	443	563	
Dolphinfish.....	17	50	872	2,581	-	5	894	2,641	
Eel, American.....	479	6,585	6	8	-	-	485	6,593	
Flounders:									
Arrowtooth.....	480	86	5,840	745	-	-	6,320	831	
Winter (blackback)...	742	2,140	5,023	14,028	-	-	5,765	16,168	
Plaice, American.....	307	872	3,631	10,533	-	-	3,938	11,405	
Summer (flake).....	602	2,862	3,383	13,469	-	-	3,984	16,331	
Sole:									
Dover.....	1,787	1,203	10,556	6,052	-	-	12,342	7,255	
Flathead.....	168	49	12,699	2,724	-	-	12,867	2,773	
Witch (gray).....	78	296	1,696	6,274	-	-	1,775	6,570	
Petrale.....	405	813	1,532	3,039	-	-	1,937	3,852	
Rock.....	599	267	32,153	10,087	-	-	32,752	10,354	
Yellowfin.....	20	2	149,281	25,692	-	-	149,301	25,694	

(Continued)

See footnote at end of table.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores				High seas or off foreign shores				Grand Total
	0 to 3 miles		3 to 200 miles		Metric tons		Thousand dollars		
	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	
Fish - Continued									
Flounders - Continued:									
Yellowtail.....	93	294	2,771	9,183	-	-	2,864	9,477	
Atlantic/Gulf, other...	2,197	9,119	57	77	-	-	2,254	9,196	
Pacific, other.....	1,090	793	19,707	10,071	-	-	20,797	10,864	
Total flounders...	8,569	18,796	248,328	111,974	-	-	256,897	130,770	
Goosefish (anglerfish)...	472	671	27,034	33,920	-	-	27,506	34,591	
Groupers.....	198	1,015	4,464	22,653	-	-	4,662	23,668	
Haddock.....	15	35	1,489	3,560	-	-	1,504	3,595	
Hakes:									
Pacific (whiting).....	-	-	226,616	27,344	-	-	226,616	27,344	
Red.....	49	24	1,280	766	-	-	1,329	790	
Silver (Atl. whiting)...	701	437	14,834	14,586	-	-	15,535	15,023	
White.....	35	51	2,186	3,177	-	-	2,221	3,228	
Halibut.....	2,134	8,003	29,717	109,989	6	28	31,857	118,020	
Herring:									
Sea:									
Atlantic.....	30,023	3,784	67,693	7,958	-	-	97,716	11,742	
Pacific.....	62,080	29,341	0	-	-	-	62,080	29,341	
Thread.....	7,548	1,007	0	-	-	-	7,548	1,007	
Jack mackerel.....	510	124	649	157	-	-	1,160	281	
Lingcod.....	528	565	1,361	1,456	-	-	1,888	2,021	
Mackerels:									
Atlantic.....	549	422	14,846	9,105	-	-	15,395	9,527	
Chub.....	18,390	2,759	7	3	-	-	18,397	2,762	
King and cero.....	318	944	2,197	6,663	-	-	2,515	7,607	
Spanish.....	677	774	1,019	1,159	-	-	1,696	1,933	
Menhaden:									
Atlantic.....	297,631	39,944	230	65	-	-	297,862	40,009	
Gulf.....	482,507	56,201	139,436	15,840	-	-	621,943	72,041	
Total menhaden...	780,138	96,145	139,667	15,905	-	-	919,805	112,050	
Mullets.....	8,821	13,248	86	171	-	-	8,907	13,419	
Ocean perch:									
Atlantic.....	(3)	(3)	251	346	-	-	251	346	
Pacific.....	36	5	19,544	3,182	-	-	19,580	3,187	

See footnote at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores				High seas or off foreign shores		Grand Total	
	0 to 3 miles		3 to 200 miles		Metric tons	Thousand dollars		
	Metric tons	Thousand dollars	Metric tons	Thousand dollars				
Fish — Continued								
Pollock:								
Atlantic.....	42	53	4,209	5,296	-	-	4,251	5,349
Walleye (Alaska).....	34,079	7,343	1,105,563	235,246	-	-	1,139,642	242,589
Rockfishes:								
Bocaccio.....	52	50	672	560	-	-	724	610
Canary.....	46	67	1,216	1,302	-	-	1,262	1,369
Chilipepper.....	460	405	1,390	1,221	-	-	1,850	1,626
Widow.....	27	20	7,724	5,215	-	-	7,751	5,235
Yellowtail.....	146	153	2,599	2,074	-	-	2,745	2,227
Other.....	1,432	1,384	37,302	35,448	-	-	38,734	36,832
Total rockfishes..	2,163	2,079	50,903	45,820	-	-	53,066	47,899
Sablefish.....	3,914	18,159	20,093	90,618	-	-	24,007	108,777
Salmon:								
Chinook or king.....	8,075	22,763	1,801	4,917	-	-	9,876	27,680
Chum or keta.....	46,789	22,772	5	3	-	-	46,795	22,775
Pink.....	102,961	26,468	3	1	-	-	102,964	26,469
Red or sockeye.....	87,292	177,266	7	18	-	-	87,299	177,284
Silver or coho.....	10,155	15,159	399	1,002	-	-	10,554	16,161
Total salmon.....	255,272	264,429	2,216	5,941	-	-	257,489	270,370
Sardines:								
Pacific.....	29,971	2,850	12,845	1,221	-	-	42,816	4,071
Spanish.....	512	279	-	-	-	-	512	279
Scup or porgy.....	933	2,823	1,660	4,626	-	-	2,593	7,449
Sea bass:								
Black (Atlantic).....	239	839	1,352	4,088	-	-	1,590	4,927
White (Pacific).....	9	42	19	85	-	-	28	127
Sea trout or weakfish:								
Gray.....	2,468	3,091	849	1,045	-	-	3,317	4,136
Spotted.....	427	1,091	-	-	-	-	427	1,091
Sand (white).....	59	81	15	10	-	-	73	91
Shad:								
American.....	1,353	1,231	34	40	-	-	1,387	1,271
Hickory.....	70	42	5	2	-	-	75	44

See footnote at end of table. (Continued)

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)**

Species	Distance from U.S. shores				High seas or off foreign shores			Grand Total
	0 to 3 miles		3 to 200 miles		Metric tons	Thousand dollars	Metric tons	
	Metric tons	Thousand dollars	Metric tons	Thousand dollars				
Fish - Continued								
Sharks:								
Dogfish.....	4,110	1,470	16,912	5,837	-	-	21,022	7,307
Other.....	759	767	5,077	6,920	-	939	6,774	8,536
Sheepshead (Atlantic)...	1,737	1,328	6	7	-	-	1,743	1,335
Skates.....	3,582	1,250	9,049	2,959	-	-	12,630	4,209
Smelts.....	1,395	1,075	-	-	-	-	1,395	1,075
Snappers:								
Red.....	96	972	2,245	9,392	-	-	2,341	10,364
Vermilion.....	3	14	736	3,231	-	-	740	3,245
Unclassified.....	337	1,563	1,429	6,438	-	-	1,766	8,001
Spearfish.....	5	10	65	124	-	30	100	191
Spot.....	3,053	2,722	20	16	-	-	3,073	2,738
Striped bass.....	2,737	8,795	64	175	-	-	2,802	8,970
Swordfish.....	538	2,625	4,120	23,985	-	1,504	6,163	33,786
Tenpounder (ladyfish)...	713	490	14	14	-	-	727	504
Tilefish.....	1	2	1,917	5,827	-	-	1,918	5,829
Trout, rainbow.....	137	242	-	-	-	-	137	242
Tuna:								
Albacore.....	3	3	9,363	17,696	9,542	17,916	18,907	35,615
Bigeye.....	7	37	2,317	15,580	4,335	9,244	6,659	24,861
Bluefin.....	(3)	3	2,158	18,409	1,137	1,794	3,295	20,206
Little tunny.....	124	84	327	276	-	-	451	360
Skipjack.....	113	320	1,022	2,783	111,019	107,221	112,154	110,324
Yellowfin.....	121	628	4,468	22,830	59,636	77,883	64,225	101,341
Unclassified.....	6	22	114	330	1,320	1,271	1,439	1,623
Total tuna.....	374	1,097	19,768	77,904	186,989	215,329	207,131	294,330
Whitefish, common.....	5,842	9,702	-	-	-	-	5,842	9,702
Wolfish, Atlantic.....	2	2	307	263	0	-	309	265
Yellow perch.....	622	2,851	-	-	-	-	622	2,851
Other marine finfishes..	15,387	18,995	14,611	14,756	327	1,019	30,325	34,770
Other freshwater finfishes.....	6,825	4,875	-	-	-	-	6,825	4,875
Total finfish.....	1,349,677	580,906	2,441,251	1,102,346	189,800	224,468	3,980,729	1,907,720

(Continued)

See footnote at end of table.

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)**

Species	Distance from U.S. shores			High seas or off foreign shores			Grand Total	
	0 to 3 miles	3 to 200 miles		Metric tons		Thousand dollars	Metric tons	Thousand dollars
Shellfish	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Abalone.....	20	1,056	-	-	-	-	20	1,056
Clams:								
Quahog (hard).....	3,496	41,865	-	-	-	-	3,496	41,865
Geoduck (Pacific).....	490	14,161	-	-	-	-	490	14,161
Manila (Pacific).....	91	1,248	-	-	-	-	91	1,248
Ocean quahog.....	1,251	1,806	18,680	18,123	-	-	19,931	19,929
Softshell.....	1,043	9,929	-	-	-	-	1,043	9,929
Surf (Atlantic).....	9,610	13,987	16,688	21,198	-	-	26,298	35,185
Other.....	443	7,369	-	-	-	-	443	7,369
Total clams.....	16,425	90,366	35,368	39,321	-	-	51,793	129,687
Conch (snails).....	858	2,454	167	400	-	-	1,024	2,854
Crabs:								
Blue: Hard.....	104,692	158,173	12	15	-	-	104,704	158,188
Soft or peeler.....	1,824	12,527	-	-	-	-	1,824	12,527
Dungeness.....	16,433	71,783	895	3,899	-	-	17,328	75,682
Jonah.....	543	592	203	214	-	-	745	806
King.....	319	2,105	7,859	48,471	-	-	8,177	50,576
Snow (tanner):								
Opilio.....	(3)	1	53,111	92,379	-	-	53,111	92,380
Bairdi.....	820	3,317	-	-	-	-	820	3,317
Other.....	3,201	8,010	5,118	28,054	-	-	8,319	36,064
Total crabs.....	127,831	256,509	67,198	173,032	-	-	195,029	429,541
Crawfish, freshwater....	10,496	12,997	-	-	-	-	10,496	12,997
Horseshoe crab.....	2,182	986	425	211	-	-	2,607	1,197
Lobsters:								
American.....	32,673	224,872	5,393	42,344	-	-	38,066	267,216
Spiny.....	1,290	14,936	1,994	18,445	-	-	3,284	33,381
Mussels, blue (sea)....	2,056	2,288	-	-	-	-	2,056	2,288
Oysters.....	17,986	111,185	-	-	-	-	17,986	111,185

See footnote at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

19

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores				High seas or off foreign shores				Grand Total	
	0 to 3 miles		3 to 200 miles		Metric tons		Thousand dollars		Metric tons	Thousand dollars
Shellfish - Continued	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars		
Scallops:										
Bay.....	32	310	-	-	-	-	-	-	32	310
Calico, Atlantic.....	77	274	655	3,327	-	-	-	-	732	3,601
Sea.....	368	5,994	5,886	84,297	-	-	-	-	6,255	90,291
Shrimp:										
New England.....	1,910	3,427	4,445	8,050	-	-	-	-	6,355	11,477
South Atlantic.....	10,198	62,832	1,433	5,823	-	-	-	-	11,631	68,655
Gulf.....	53,639	200,510	39,583	236,419	-	-	-	-	93,221	436,929
Pacific.....	13,856	18,966	6,581	7,852	-	-	-	-	20,436	26,818
Other.....	5	51	10	110	-	-	-	-	16	178
Total shrimp.....	79,607	285,786	52,051	258,254	1	17	131,660	544,057		
Squid:										
Atlantic:										
Illex.....	131	80	13,501	6,360	-	-	-	-	13,632	6,440
Loligo.....	1,756	2,933	14,406	23,543	-	-	-	-	16,161	26,476
Unclassified.....	109	213	115	214	-	-	-	-	224	427
Pacific:										
Loligo.....	70,919	22,056	-	-	-	-	-	-	70,919	22,056
Unclassified.....	124	55	446	27	-	-	-	-	571	82
Total, squid.....	73,039	25,337	28,468	30,144	-	-	101,507	55,481		
Other shellfish.....	2,658	9,005	660	2,373	-	-	-	-	3,319	11,378
Total shellfish.....	367,599	1,044,355	198,266	652,148	1	17	565,866	1,696,520		
Other										
Sea urchin.....	20,216	39,330	-	-	-	-	-	-	20,216	39,330
Seaweed, unclassified....	70,432	2,443	-	-	-	-	-	-	70,432	2,443
Kelp (with herring eggs)	298	3,596	-	-	-	-	-	-	298	3,596
Worms.....	223	2,507	-	-	-	-	-	-	223	2,507
Total other.....	91,169	47,876	-	-	-	-	91,169	47,876		
Grand total, 1997	1,808,444	1,673,137	2,639,518	1,754,494	189,802	224,485	4,637,764	3,652,116		
Grand total, 1996	1,396,748	1,653,996	2,937,373	1,800,293	187,978	191,854	4,522,099	3,646,143		

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance-from-shore landings for data collected by the Service and States. (2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River drainage area States. (3) Less than 500 mt or \$500. NOTE:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States and catches by U.S.-flag vessels transferred to internal water processing vessels (IWPs) in U.S. waters. Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. There may also be differences in totals due to rounding. Data do not include aquaculture products, except oysters and clams.

U.S. COMMERCIAL LANDINGS

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1997 (1)

Species	Puerto Rico		Guam	
	Pounds	Dollars	Pounds	Dollars
Fish				
Amberjack.....	-	-	168	388
Ballyhoo.....	48,256	53,443	-	-
Barracuda.....	23,973	32,963	2,019	3,788
Dolphinfish.....	166,477	238,311	95,349	176,203
Emperors.....	-	-	2,722	7,900
Goatfish.....	15,553	23,446	12	33
Grouper.....	48,797	90,885	1,047	2,846
Grouper, red hind.....	40,886	80,749	-	-
Grunts.....	150,104	206,303	-	-
Hogfish.....	61,004	122,009	-	-
Jacks, unclassified.....	71,420	84,097	2,296	5,817
Mackerel, king and cero.	186,234	268,177	-	-
Margate.....	-	-	-	-
Marlin.....	-	-	52,581	61,525
Mojarra.....	20,009	24,861	-	-
Mullet (black or silver)	52,307	60,415	225	632
Nassau grouper.....	10,123	16,247	-	-
Parrotfish.....	100,516	147,004	1,605	4,441
Reef fish.....	-	-	37,363	107,441
Sailfish.....	-	-	1,054	1,450
Scup or porgy.....	23,507	33,439	-	-
Scad, bigeye.....	-	-	7,129	18,958
Sharks, other.....	41,816	52,897	25	35
Snappers:				
Ehu.....	-	-	-	-
Lane.....	259,064	388,596	-	-
Lehi.....	-	-	-	-
Mutton.....	74,394	132,236	-	-
Onaga.....	-	-	-	-
Opakapakas.....	-	-	-	-
Silk.....	196,494	444,077	-	-
Yellowtail.....	220,116	393,457	-	-
Other.....	66,900	125,939	3,450	11,707
Total snappers.....	816,968	1,484,305	3,450	11,707
Snook.....	51,421	70,062	-	-
Spanish sardine.....	31,203	30,501	-	-
Squirrelfish.....	17,946	22,746	40	120
Surgeonfishes.....	-	-	-	-
Tarpon.....	1,637	360	-	-
Triggerfish.....	53,586	83,326	-	-
Trunkfish (boxfish).....	73,439	137,514	-	-
Tuna:				
Skipjack.....	-	-	53,652	69,924
Yellowfin.....	-	-	37,564	80,586
Unclassified.....	199,283	222,200	3,829	6,332
Total tuna.....	199,283	222,200	95,045	156,842

(Continued on next page)

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1997 (1)

Species	Puerto Rico		Guam	
	Pounds	Dollars	Pounds	Dollars
Wahoo.....	-	-	44,495	100,416
Other marine finfishes..	464,236	518,084	1,977	3,911
Freshwater fish, other..	-	-	-	-
Total, fish.....	2,770,701	4,104,344	348,602	664,453
Shellfish				
Crabs, other.....	9,407	36,711	10	39
Lobster, spiny.....	214,284	853,387	583	2,103
Conch (snail) meats....	186,976	422,098	-	-
Oysters.....	791	920	-	-
Octopus.....	36,613	63,798	-	-
Other shellfish.....	6,986	17,517	259	871
Total, shellfish, et al.....	455,057	1,394,431	852	3,013
Grand total.....	3,225,758	5,498,775	349,454	667,466

Species	American Samoa		Northern Marianas Islands	
	Pounds	Dollars	Pounds	Dollars
Amberjack.....	63	127	-	-
Barracuda.....	8,781	16,101	221	484
Dolphinfish.....	36,881	55,394	38,442	80,300
Emperors.....	4,837	9,902	29,226	83,939
Goatfish.....	5	6	20,194	41,558
Groupers.....	4,163	8,586	11,082	34,137
Grunts.....	53	66	-	-
Jacks, unclassified....	3,354	7,064	4,097	13,579
Marlin.....	40,818	51,022	8,632	15,912
Mullet (black or silver)	8	17	496	1,256
Parrotfish.....	5,779	11,465	14,410	38,587
Reef fish.....	17,131	33,899	176,579	403,635
Sailfish.....	7,301	10,952	124	248
Scad, bigeye.....	90	179	9,264	28,711
Sharks, other.....	7,898	8,798	-	-
Snappers:				
Ehu.....	-	-	-	-
Lehi.....	-	-	-	-
Onaga.....	-	-	-	-
Opakapakas.....	-	-	-	-
Yellowtail.....	-	-	-	-
Other.....	16,118	35,259	32,357	131,538
Total snappers.....	16,118	35,259	32,357	131,538

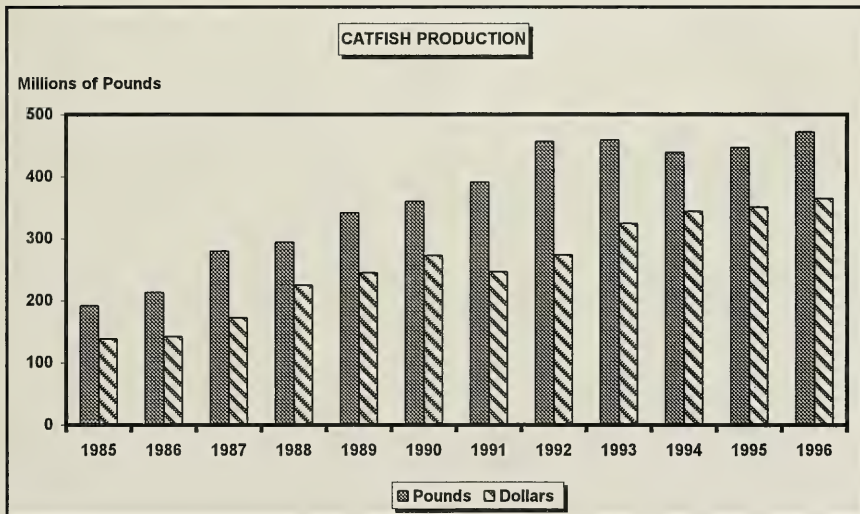
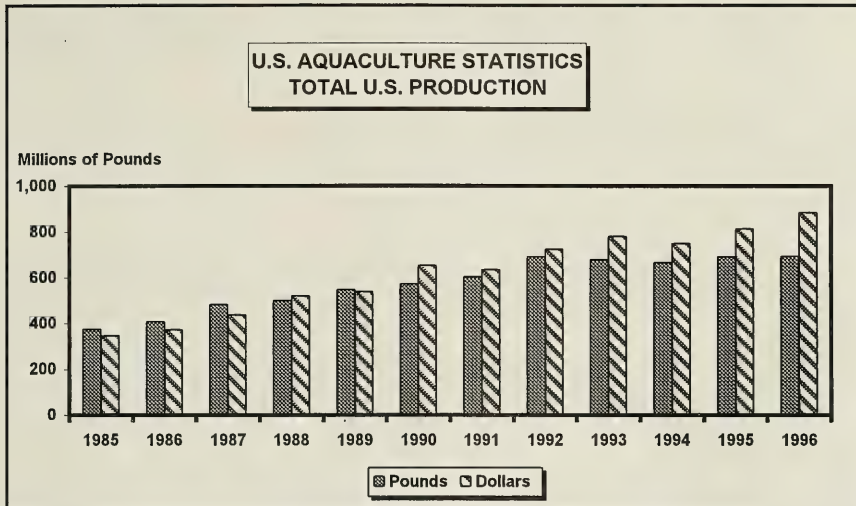
(Continued on next page)

U.S. COMMERCIAL LANDINGS

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1997 (1)

Species	American Samoa		Northern Marianas Islands	
	Pounds	Dollars	Pounds	Dollars
Fish				
Squirrelfish.....	1,805	3,683	10,941	23,245
Surgeonfishes.....	-	-	-	-
Triggerfish.....	-	-	-	-
Tuna:				
Albacore.....	-	-	-	-
Bigeye.....	-	-	-	-
Skipjack.....	35,043	34,014	141,076	307,377
Yellowfin.....	83,667	64,259	23,634	59,345
Unclassified.....	633,966	698,499	16,305	35,986
Total tuna.....	752,676	796,772	181,015	402,708
Wahoo.....	16,822	25,234	9,115	21,116
Other marine finfishes..	5,963	8,799	4,131	9,374
Freshwater fish, other..	-	-	-	-
Total, fish.....	930,546	1,083,325	550,326	1,330,327
Shellfish				
Crabs, other.....	133	439	-	-
Lobster, spiny.....	1,626	4,924	412	1,927
Shrimp.....	-	-	-	-
Octopus.....	-	-	-	-
Other shellfish.....	70	70	838	2,373
Total, shellfish, et al.....	1,829	5,433	1,250	4,300
Grand total.....	932,375	1,088,758	551,576	1,334,627

(1) Data in this table are preliminary and represent the latest information available.



U.S. COMMERCIAL LANDINGS

ESTIMATED U.S. AQUACULTURE PRODUCTION, 1985 - 1996

Species	1985			1986			1987		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:									
Battfish.....	24,807	11,252	51,280	25,807	11,706	51,522	26,000	11,794	71,500
Catfish.....	191,616	86,916	138,922	213,756	96,959	142,789	280,496	127,232	173,347
Salmon.....	3,921	1,779	5,465	2,878	1,305	4,399	4,024	1,825	7,462
Striped bass.....	NA	0	NA	10	5	195	405	184	813
Trout.....	50,600	22,952	55,154	51,000	23,133	55,590	56,247	25,513	57,556
Shellfish:									
Clams.....	1,999	907	4,698	2,564	1,163	8,173	2,409	1,093	10,311
Crawfish.....	65,011	29,489	29,350	69,834	31,676	35,009	70,000	31,752	29,400
Mussels.....	1,210	549	642	1,175	533	1,032	1,164	528	1,024
Oysters.....	21,906	9,936	38,882	24,475	11,102	49,666	23,926	10,853	49,549
Shrimp (SW).....	440	200	1,566	1,354	614	1,687	2,656	1,205	3,408
Miscellaneous.....	14,267	6,471	21,541	15,668	7,107	22,398	16,845	7,641	32,722
Totals.....	375,777	170,451	347,500	408,521	185,304	372,460	484,172	219,619	437,092
Species	1988			1989			1990		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:									
Battfish.....	26,400	11,975	71,000	24,005	10,889	62,489	21,610	9,802	53,978
Catfish.....	295,109	133,861	225,463	341,900	155,085	245,142	360,435	163,492	273,210
Salmon.....	6,777	3,074	20,647	8,504	3,857	23,742	9,069	4,114	26,341
Striped bass.....	880	399	1,820	1,020	463	2,173	1,590	721	3,490
Trout.....	56,032	25,416	57,927	55,528	25,187	60,041	56,816	25,772	64,640
Shellfish:									
Clams.....	2,128	965	11,320	2,370	1,075	12,721	3,680	1,669	13,486
Crawfish.....	65,848	29,868	24,364	66,000	29,937	20,460	71,000	32,205	34,000
Mussels.....	1,064	483	1,130	618	280	1,136	607	275	1,173
Oysters.....	24,398	11,067	58,900	22,255	10,095	58,082	22,192	10,066	77,949
Shrimp (SW).....	2,200	998	7,609	1,500	680	7,551	1,984	900	7,937
Miscellaneous.....	19,406	8,803	40,102	24,330	11,036	45,964	23,548	10,681	98,908
Totals.....	500,242	226,908	520,282	548,030	248,595	539,501	572,531	259,698	655,112

ESTIMATED U.S. AQUACULTURE PRODUCTION, 1985 - 1996

Species	1991			1992			1993		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:									
Baitfish.....	21,182	9,608	55,948	20,618	9,352	61,183	20,574	9,332	63,033
Catfish.....	390,870	177,297	246,639	457,367	207,460	273,506	459,013	208,207	325,432
Salmon.....	16,753	7,599	44,156	23,937	10,858	75,193	25,279	11,466	68,358
Striped bass...	2,250	1,021	5,086	3,550	1,610	8,266	5,950	2,699	14,270
Tilapia.....	5,000	2,268	6,250	9,500	4,309	10,260	12,500	5,670	15,625
Trout.....	59,422	26,954	59,142	56,264	25,521	53,942	54,642	24,785	54,309
Shellfish:									
Clams.....	3,784	1,716	11,133	4,282	1,942	11,539	6,125	2,778	12,096
Crawfish.....	60,585	27,481	33,285	63,032	28,591	34,860	56,784	25,757	28,518
Mussels.....	210	95	947	282	128	1,162	308	140	927
Oysters.....	20,632	9,359	63,463	23,986	10,880	82,432	24,399	11,067	76,139
Shrimp (SW)....	3,527	1,600	14,110	4,409	2,000	17,637	6,614	3,000	26,455
Miscellaneous...	19,891	9,022	96,069	23,955	10,866	94,207	6,613	3,000	97,232
Totals.....	604,106	274,021	636,228	691,182	313,518	724,187	678,801	307,902	782,394
Species	1994			1995			1996		
Finfish:	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Baitfish.....	21,709	9,847	68,714	21,759	9,870	72,522	20,849	9,457	70,254
Catfish.....	439,269	199,251	344,475	446,886	202,706	351,222	472,123	214,154	364,951
Salmon.....	24,714	11,210	61,915	31,315	14,204	75,991	30,657	13,906	60,995
Striped bass...	7,625	3,459	18,835	8,315	3,772	21,156	7,850	3,561	20,308
Tilapia.....	12,980	5,888	16,225	15,075	6,838	22,613	15,965	7,242	23,948
Trout.....	52,075	23,621	52,569	55,934	25,371	61,447	53,620	24,322	56,958
Shellfish:									
Clams.....	4,872	2,210	14,023	4,325	1,962	19,709	3,834	1,739	20,315
Crawfish.....	49,080	22,263	26,994	58,146	26,375	34,714	46,584	21,130	34,820
Mussels.....	426	192	1,249	410	186	1,221	986	447	5,085
Oysters.....	28,016	12,708	69,928	23,221	10,533	70,628	18,546	8,412	64,368
Shrimp (SW)....	4,409	2,000	17,637	2,205	1,000	8,818	2,866	1,300	11,464
Miscellaneous...	20,462	9,282	58,545	23,359	10,596	75,243	19,813	8,987	152,169
Totals.....	665,635	301,930	751,109	690,950	313,413	815,284	693,693	314,657	885,635

NA:--Not available. SW:--Saltwater.

NOTE:--Table may not add due to rounding. Clams, oysters and mussels are reported as meat weights (excludes shell) while other identified species such as shrimp and finfishes are reported as whole (live) weights. Some clam and oyster aquaculture production are reported with U.S. commercial landings. Weights and values represent the final sales of products to processors and dealers. "Miscellaneous" includes ornamental/tropical fish, alligators, algae, aquatic plants, eels, scallops, crabs, and others. The high value and low production of "Miscellaneous" occurs because production value but not weight are reported for many species such as ornamental fishes.

Source:--Fisheries Statistics and Economics Division, F/ST1, NMFS.

U. S. COMMERCIAL LANDINGS

SUMMARY OF COMMERCIAL WHITING (MERLUCCIOUS SPP.) LANDINGS,
BY STATE, 1950-97 (1)

Year	Maine		New Hampshire		Massachusetts	
	<u>Thousand pounds</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Thousand dollars</u>
1950.....	15,616	190	-	-	48,831	1,115
1951.....	19,576	284	-	-	97,974	2,486
1952.....	23,328	260	-	-	81,202	1,914
1953.....	12,668	150	-	-	71,858	1,398
1954.....	9,319	116	-	-	78,050	1,646
1955.....	25,128	266	-	-	81,884	1,486
1956.....	14,835	158	-	-	72,445	1,314
1957.....	15,810	179	-	-	107,972	1,970
1958.....	23,577	318	-	-	81,066	1,952
1959.....	23,339	330	-	-	83,134	1,682
1960.....	11,123	192	-	-	87,348	1,950
1961.....	14,147	237	-	-	74,010	1,616
1962.....	17,831	274	-	-	75,384	1,656
1963.....	15,942	242	-	-	66,770	1,563
1964.....	25,304	374	-	-	58,067	1,263
1965.....	27,722	486	-	-	44,903	1,309
1966.....	29,699	1,143	-	-	51,482	2,310
1967.....	20,726	504	-	-	37,812	1,098
1968.....	28,916	817	15	(2)	40,495	1,384
1969.....	17,890	802	22	(2)	18,359	1,132
1970.....	14,837	1,184	18	1	21,591	1,871
1971.....	9,900	480	15	1	15,077	888
1972.....	4,095	331	24	1	11,228	1,059
1973.....	5,517	299	9	1	25,475	1,689
1974.....	2,869	175	16	1	12,369	1,007
1975.....	1,199	72	23	2	26,630	2,239
1976.....	408	29	39	3	29,440	2,376
1977.....	255	17	35	3	27,179	2,301
1978.....	1,162	109	52	5	27,243	3,769
1979.....	143	15	45	4	7,635	1,392
1980.....	537	60	73	7	9,846	1,644
1981.....	2,823	330	16	2	6,634	1,326
1982.....	1,920	258	37	5	8,389	1,493
1983.....	2,317	328	105	17	9,629	1,220
1984.....	3,625	323	141	20	14,090	1,558
1985.....	2,493	276	391	87	14,773	2,685
1986.....	1,931	352	188	33	16,559	3,018
1987.....	1,281	341	159	38	10,777	2,844
1988.....	2,143	417	153	48	8,990	2,133
1989.....	759	219	126	42	6,276	1,730
1990.....	264	56	227	76	8,781	2,260
1991.....	127	44	173	60	8,726	2,626
1992.....	102	53	185	80	7,940	2,681
1993.....	61	24	142	70	5,457	1,804
1994.....	1,935	527	203	79	4,700	1,624
1995.....	1,981	629	194	76	2,830	1,025
1996.....	3,207	1,175	243	97	2,657	905
1997.....	1,124	319	328	113	2,850	1,142

See footnotes at end of table.

**SUMMARY OF COMMERCIAL WHITING (MERLUCCIUS SPP.) LANDINGS,
BY STATE, 1950-97 (1) - Continued**

Year	Connecticut		Rhode Island		New York	
	<u>Thousand pounds</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Thousand dollars</u>
1950.....	362	12	655	21	1,363	71
1951.....	174	13	742	21	684	49
1952.....	193	11	1,232	33	823	44
1953.....	135	7	704	15	1,468	115
1954.....	224	5	2,793	68	2,172	130
1955.....	361	9	3,257	72	3,858	165
1956.....	150	3	2,660	67	1,540	53
1957.....	237	7	2,293	57	3,653	151
1958.....	142	4	1,865	51	2,020	102
1959.....	545	15	3,126	83	2,069	104
1960.....	708	16	4,458	104	3,593	130
1961.....	767	19	5,021	124	2,628	113
1962.....	533	13	3,989	96	2,723	122
1963.....	369	10	3,477	99	2,368	111
1964.....	396	10	3,905	104	3,123	159
1965.....	263	8	2,489	79	3,338	161
1966.....	147	9	2,513	147	2,008	89
1967.....	97	3	1,270	49	3,885	212
1968.....	136	8	2,172	120	3,311	200
1969.....	194	14	2,836	204	2,132	134
1970.....	88	8	3,597	322	1,020	114
1971.....	289	16	2,910	228	1,058	95
1972.....	82	5	2,753	285	2,631	195
1973.....	21	2	3,094	310	1,930	211
1974.....	26	2	5,220	463	1,955	250
1975.....	22	2	5,347	450	2,599	345
1976.....	34	8	7,284	530	2,546	290
1977.....	98	13	5,495	486	2,105	358
1978.....	168	17	6,572	824	4,712	896
1979.....	148	20	8,334	1,335	6,285	1,166
1980.....	20	3	6,913	1,162	5,222	1,083
1981.....	103	20	10,141	1,754	3,422	1,083
1982.....	101	20	14,992	2,919	3,232	1,080
1983.....	136	22	13,608	2,180	4,545	1,270
1984.....	106	21	15,021	2,316	4,619	1,116
1985.....	102	20	13,282	2,359	4,403	1,412
1986.....	152	30	12,517	2,487	2,364	955
1987.....	303	103	13,327	4,112	4,524	2,321
1988.....	377	128	13,570	2,744	4,190	1,441
1989.....	773	131	15,261	2,426	9,059	2,859
1990.....	525	89	18,168	3,645	7,394	2,601
1991.....	848	144	16,103	3,881	6,105	2,464
1992.....	1,260	214	18,338	3,968	5,936	2,940
1993.....	2,398	408	15,442	4,846	12,200	5,900
1994.....	1,889	321	12,881	4,297	11,166	5,793
1995.....	3,572	1,426	9,889	4,010	11,365	5,725
1996.....	5,644	1,944	9,116	3,170	12,723	5,581
1997.....	4,164	1,740	11,640	4,524	11,943	6,314

See footnotes at end of table.

U. S. COMMERCIAL LANDINGS

SUMMARY OF COMMERCIAL WHITING (MERLUCCIIUS SPP.) LANDINGS,
BY STATE, 1950-97 (1) - Continued

Year	New Jersey		Delaware		Maryland	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1950.....	474	36	-	-	4	(2)
1951.....	897	49	-	-	11	(2)
1952.....	1,647	102	-	-	1	(2)
1953.....	2,754	127	1	(2)	3	(2)
1954.....	2,633	75	5	(2)	27	1
1955.....	4,339	126	-	-	-	-
1956.....	2,212	84	-	-	33	1
1957.....	3,007	113	1	(2)	49	1
1958.....	2,583	128	-	-	76	2
1959.....	2,484	107	55	2	96	2
1960.....	3,821	127	-	-	111	2
1961.....	3,680	122	-	-	66	2
1962.....	3,913	157	-	-	168	4
1963.....	3,409	143	-	-	190	5
1964.....	3,271	154	-	-	131	3
1965.....	3,729	156	1	-	109	3
1966.....	4,520	255	-	-	29	1
1967.....	5,654	286	1	(2)	59	2
1968.....	4,045	254	1	(2)	10	1
1969.....	3,826	349	-	-	34	3
1970.....	3,301	382	-	-	32	4
1971.....	3,948	375	-	-	6	1
1972.....	5,440	453	-	-	-	-
1973.....	6,450	868	2	(2)	4	1
1974.....	7,022	587	8	1	21	2
1975.....	6,467	615	13	1	5	1
1976.....	7,915	743	9	1	6	1
1977.....	10,055	1,040	9	(2)	33	2
1978.....	11,108	1,558	5	(2)	11	1
1979.....	11,749	1,718	3	(2)	22	2
1980.....	11,822	2,004	4	(2)	14	1
1981.....	9,072	1,801	-	-	16	2
1982.....	7,102	1,875	-	-	11	3
1983.....	6,614	1,740	-	-	33	8
1984.....	8,415	1,484	-	-	26	5
1985.....	8,988	1,419	-	-	9	2
1986.....	5,900	1,341	-	-	3	1
1987.....	4,183	1,787	-	-	1	(2)
1988.....	6,096	1,695	-	-	6	1
1989.....	8,200	2,263	-	-	13	4
1990.....	8,627	2,377	-	-	22	7
1991.....	4,422	2,000	-	-	15	5
1992.....	2,160	1,024	-	-	2	1
1993.....	2,638	1,016	-	-	14	4
1994.....	2,867	1,192	-	-	3	1
1995.....	2,783	1,307	-	-	4	2
1996.....	1,798	617	-	-	-	-
1997.....	2,072	869	-	-	2	1

See footnotes at end of table.

**SUMMARY OF COMMERCIAL WHITING (MERLUCCIIUS SPP.) LANDINGS,
BY STATE, 1950-97 (1) - Continued**

Year	Virginia		North Carolina		Atlantic Total	
	<u>Thousand pounds</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Thousand dollars</u>
1950.....	8	(2)	-	-	67,313	1,445
1951.....	17	1	-	-	120,075	2,903
1952.....	13	(2)	-	-	108,439	2,364
1953.....	34	1	-	-	89,625	1,813
1954.....	34	1	-	-	95,257	2,042
1955.....	46	2	-	-	118,873	2,126
1956.....	49	2	-	-	93,924	1,682
1957.....	19	1	-	-	133,041	2,479
1958.....	74	3	-	-	111,403	2,560
1959.....	344	10	-	-	115,192	2,335
1960.....	440	14	-	-	111,602	2,535
1961.....	407	12	3	(2)	100,729	2,245
1962.....	548	18	-	-	105,089	2,340
1963.....	117	4	1	(2)	92,643	2,177
1964.....	36	1	-	-	94,233	2,068
1965.....	20	1	-	-	82,574	2,203
1966.....	10	1	-	-	90,408	3,955
1967.....	40	2	-	-	69,544	2,156
1968.....	47	3	-	-	79,148	2,787
1969.....	35	3	-	-	45,328	2,641
1970.....	32	3	-	-	44,516	3,889
1971.....	94	7	286	34	33,583	2,125
1972.....	13	1	2	(2)	26,268	2,330
1973.....	12	3	-	-	42,514	3,384
1974.....	5	1	2	(2)	29,513	2,489
1975.....	7	1	2	(2)	42,314	3,728
1976.....	6	(2)	-	-	47,687	3,981
1977.....	37	3	14	1	45,315	4,224
1978.....	83	11	-	-	51,116	7,190
1979.....	152	24	-	-	34,516	5,676
1980.....	330	50	670	83	35,451	6,097
1981.....	494	54	3,149	546	35,870	6,918
1982.....	188	55	584	102	36,556	7,810
1983.....	79	16	18	5	37,084	6,806
1984.....	171	24	276	41	46,490	6,908
1985.....	57	10	63	8	44,561	8,278
1986.....	27	6	13	3	39,654	8,226
1987.....	66	22	15	6	34,636	11,574
1988.....	19	5	4	1	35,548	8,613
1989.....	44	7	5	1	40,516	9,682
1990.....	57	14	9	2	44,074	11,127
1991.....	30	9	2	1	36,551	11,234
1992.....	6	2	-	-	35,929	10,963
1993.....	12	3	20	5	38,384	14,080
1994.....	10	7	-	-	35,654	13,841
1995.....	8	3	-	-	32,626	14,203
1996.....	10	4	-	-	35,398	13,493
1997.....	5	2	-	-	34,128	15,024

See footnotes at end of table.

U. S. COMMERCIAL LANDINGS

SUMMARY OF COMMERCIAL WHITING (MERLUCCIIUS SPP.) LANDINGS,
BY STATE, 1950-97 (1) - Continued

Year	Washington		Oregon		California	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1950.....	-	-	-	-	1	(2)
1951.....	-	-	-	-	25	(2)
1952.....	-	-	-	-	6	(2)
1953.....	-	-	-	-	104	2
1954.....	-	-	-	-	612	9
1955.....	-	-	-	-	959	14
1956.....	-	-	-	-	1,376	22
1957.....	-	-	-	-	1,149	19
1958.....	-	-	-	-	1,135	19
1959.....	-	-	-	-	1,097	22
1960.....	-	-	-	-	325	6
1961.....	-	-	-	-	3	(2)
1962.....	-	-	-	-	-	-
1963.....	-	-	-	-	-	-
1964.....	716	11	50	1	112	2
1965.....	1,528	16	1,499	15	119	2
1966.....	11,700	113	65	1	69	1
1967.....	28,786	233	18	(2)	14	(2)
1968.....	9,386	89	-	-	-	-
1969.....	8,529	68	-	-	1	(2)
1970.....	9,009	78	-	-	10	(2)
1971.....	10,660	122	6	(2)	35	1
1972.....	4,184	40	9	(2)	11	(2)
1973.....	2,482	37	78	4	34	1
1974.....	5,197	102	36	4	32	2
1975.....	3,353	48	6	0	39	2
1976.....	3,739	57	472	19	29	1
1977.....	3,621	64	972	58	87	5
1978.....	6,379	128	858	56	748	66
1979.....	9,782	162	305	19	1,836	147
1980.....	11,350	245	605	42	1,528	109
1981.....	9,435	203	360	25	1,467	114
1982.....	13,334	336	3	0	2,257	181
1983.....	15,102	432	143	24	2,161	162
1984.....	8,884	282	746	59	5,148	341
1985.....	7,762	260	1,950	173	6,605	396
1986.....	3,372	116	927	60	6,575	384
1987.....	876	50	403	34	9,960	611
1988.....	776	53	543	41	14,402	1,076
1989.....	199	14	196	15	16,089	1,052
1990.....	11,074	823	5,058	219	12,167	784
1991.....	406,248	21,455	29,109	1,373	15,197	882
1992.....	319,606	17,578	107,939	5,078	10,868	597
1993.....	218,268	7,576	78,970	2,289	6,835	343
1994.....	396,874	14,281	143,563	4,298	7,965	354
1995.....	228,618	10,597	147,355	7,000	9,018	456
1996.....	268,553	12,674	155,588	4,145	6,396	239
1997.....	330,127	19,938	155,511	6,823	13,960	583

See footnotes at end of table.

**SUMMARY OF COMMERCIAL WHITING (MERLUCCIUS SPP.) LANDINGS,
BY STATE, 1950-97 (1) - Continued**

Year	Pacific Total		Grand Total	
	<u>Thousand pounds</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Thousand dollars</u>
1950.....	1	(2)	67,314	1,445
1951.....	25	(2)	120,100	2,903
1952.....	6	(2)	108,445	2,364
1953.....	104	2	89,729	1,815
1954.....	612	9	95,869	2,051
1955.....	959	14	119,832	2,140
1956.....	1,376	22	95,300	1,704
1957.....	1,149	19	134,190	2,498
1958.....	1,135	19	112,538	2,579
1959.....	1,097	22	116,289	2,357
1960.....	325	6	111,927	2,541
1961.....	3	(2)	100,732	2,245
1962.....	-	-	105,089	2,340
1963.....	-	-	92,643	2,177
1964.....	878	14	95,111	2,082
1965.....	3,146	33	85,720	2,236
1966.....	11,834	115	102,242	4,070
1967.....	28,818	233	98,362	2,389
1968.....	9,386	89	88,534	2,876
1969.....	8,530	68	53,858	2,709
1970.....	9,019	78	53,535	3,967
1971.....	10,701	123	44,284	2,248
1972.....	4,204	40	30,472	2,370
1973.....	2,594	42	45,108	3,426
1974.....	5,265	108	34,778	2,597
1975.....	3,398	50	45,712	3,778
1976.....	4,240	77	51,927	4,058
1977.....	4,680	127	49,995	4,351
1978.....	7,985	250	59,101	7,440
1979.....	11,923	328	46,439	6,004
1980.....	13,483	396	48,934	6,493
1981.....	11,262	342	47,132	7,260
1982.....	15,594	517	52,150	8,327
1983.....	17,406	618	54,490	7,424
1984.....	14,778	682	61,268	7,590
1985.....	16,317	829	60,878	9,107
1986.....	10,874	560	50,528	8,786
1987.....	11,239	695	45,875	12,269
1988.....	15,721	1,170	51,269	9,783
1989.....	16,484	1,081	57,000	10,763
1990.....	28,299	1,826	72,373	12,953
1991.....	450,554	23,710	487,105	34,944
1992.....	438,413	23,253	474,342	34,216
1993.....	304,073	10,208	342,457	24,288
1994.....	548,402	18,933	584,056	32,774
1995.....	384,991	18,053	417,617	32,256
1996.....	430,537	17,058	465,935	30,551
1997.....	499,598	27,344	533,726	42,368

(1) The scientific name of Pacific whiting (hake) is *Merluccius productus* while Atlantic whiting (silver hake) are *M. bilinearis* and *M. albidus*. Florida landings of 18,900 pounds and \$1,512 for 1950 are not included in summary. The 1990-97 Washington landings include fishes caught in the EEZ or other waters principally off the coasts of Washington and Oregon that are processed by ships at sea.

(2) Less than 500 lb or \$500.

DATA COLLECTION. Data on commercial fisheries were collected for many years, yet before 1979 there was no continuous, systematic collection of marine recreational fishery data. Detailed information on marine recreational fishing is required to support a variety of fishery management and development purposes and is mandated by the Sustainable Fisheries Act, Public Law 94-265. In 1979, NMFS began the comprehensive Marine Recreational Fishery Statistical Survey (MRFSS). Data collected through the MRFSS show that recreational fisheries have tremendous impacts on fish stocks. For several important species recreational landings surpass commercial landings.

The MRFSS consists of an intercept survey of anglers in the field and a telephone survey of coastal county households. The intercept survey collects data on species composition, catch rates, and fish lengths and weights. The telephone survey collects data on the number of marine fishing trips. These independent data are combined to produce estimates of catch, effort, and participation. Estimates are generated by subregion, state, wave (bimonthly sampling period), species, mode and primary area fished. In addition, economic and demographic data are also obtained.

The MRFSS is being conducted in 1998 along the coast of the entire continental United States except the state of Texas. Sampling coverage varies across the time series (see figures). Detailed information and the ability to access data are available on the Fisheries Statistics and Economics web page (www.st.nmfs.gov/st1). Data from other NMFS and state surveys (SE head boats, Texas, California Passenger Fishing Vessels, Oregon/Washington ocean boats, Pacific salmon, Alaska) are not included in this report.

DATA TABLES. The estimated number of fish caught and weight of the harvest are presented for 64 commonly caught species. The estimated number caught includes a) fish brought ashore in

whole form that were identified, weighed, and measured; and b) fish that were not available for identification. The latter type includes fish used for bait, discarded, filleted or released alive. Harvest does not include fish that were released alive. Estimated catch and harvest is presented by subregion and primary fishing area: inland [sounds, rivers, bays], state territorial seas [ocean to 3 miles from shore, except for Florida's Gulf coast, where state territorial seas extend 10 miles from shore], and Exclusive Economic Zone (EEZ) [ocean from the edge of the state territorial seas to 200 miles from shore]. The total number of estimated trips and participants are presented by state.

All estimates are shown with proportional standard errors (PSE). The PSE's express the standard error of an estimate as a percentage of the estimate and are a measure of precision. A 95% confidence interval indicates a 95% certainty that the true value lies between the lower and upper limits. The 95% confidence intervals are calculated as: 1) the lower limit is the estimate minus 1.96 times the standard error, and 2) the upper limit is the estimate plus 1.96 times the standard error. For example, if the estimated trips equal 64 million with a PSE of 1%, then the upper confidence interval would be 65,254,400 ($64 \text{ million} + (1.96 \times 640,000)$).

1997 MRFSS DATA. In 1997, almost 9 million people made 68 million marine recreational fishing trips to the Atlantic, Gulf and Pacific coasts. The estimated marine recreational finfish catch was 366 million fish. Over 50% percent of the catch was released alive. The estimated total weight of the harvest was 234 million pounds.

The Atlantic and Gulf coasts accounted for 79% of the participants, 90% of the fishing trips, and 92% of the marine recreational finfish catch. Most (57%) of the catch came from inland waters, 32% from state territorial seas, and 11% from the EEZ. The distribution is different for the Atlantic and Gulf coasts versus the Pacific coast. On the Atlantic and Gulf the majority of the catch

was from inland waters, while on the Pacific coast the majority was from the state territorial seas.

ATLANTIC AND GULF. The estimated number of Atlantic and Gulf coast trips made between 1993 and 1997 remained at about 58 million. The estimated number of people engaged in marine recreational fishing on the Atlantic and Gulf coast ranged from a low of 6.6 million in 1996 to a high of 7.6 million in 1994. In 1997, 7 million marine recreational fishing participants took 61 million trips and caught a total of 337 million fish. By subregion, the Gulf of Mexico accounted for the highest numbers of fish caught (45%) followed by the Mid-Atlantic (31%). Thirty percent of the recreational fishing trips were made in the South Atlantic, 30% in the Gulf of Mexico, 28% in the Mid-Atlantic, and 12% in the North Atlantic.

The most commonly caught non-bait species (numbers of fish) were spotted seatrout, Atlantic croaker, summer flounder, striped bass, black sea bass, and bluefish. Top-ranked non-bait species (catch in numbers) by subregion were striped bass in the North Atlantic, summer flounder in the Mid-Atlantic, bluefish in the South Atlantic, and spotted seatrout in the Gulf of Mexico. By weight, the largest harvests were dolphin, striped bass, bluefish, red drum, king mackerel, summer flounder, and spotted seatrout. The average weight for all fish combined was 1.6 pounds while the average weights for the top species were 2.6 pounds for bluefish, 10.1 for striped bass, 5.1 for red drum, 10.1 for dolphin, 1.1 for spotted seatrout, 1.8 for summer flounder, and 10.1 for king mackerel.

The catch of striped bass increased steadily and dramatically since 1990 with a record catch of over 17 million fish in 1997. Over 91% of striped bass were released alive in 1997. Spotted seatrout, summer flounder, Atlantic croaker and black sea bass catches remained relatively steady from 1993-1997. Bluefish catches increased from 10 million in 1995 and 1996 to 13 million in 1997.

Eleven percent of the catch on the Atlantic and Gulf coasts came from the EEZ. The most commonly caught species in federally managed waters were black sea bass, Atlantic mackerel, dolphin, red snapper, Atlantic croaker, summer flounder and bluefish.

PACIFIC. In 1997, 1.8 million marine recreational fishing participants took 7.2 million trips and caught a total of 29 million fish. Seventy-two percent of the trips were made in California, followed by 20% in Washington, and 8% in Oregon.

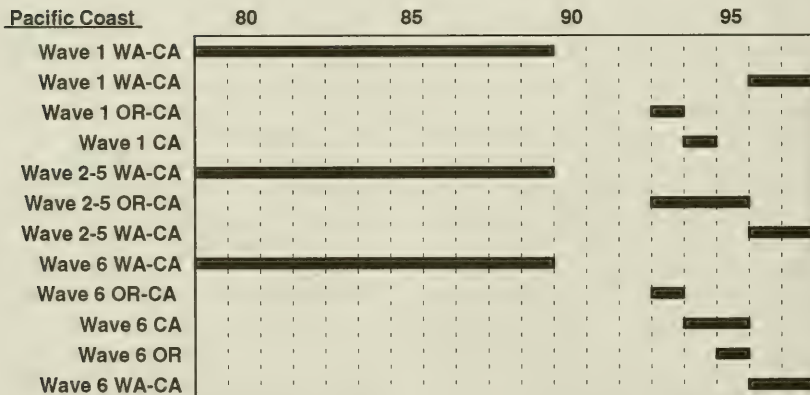
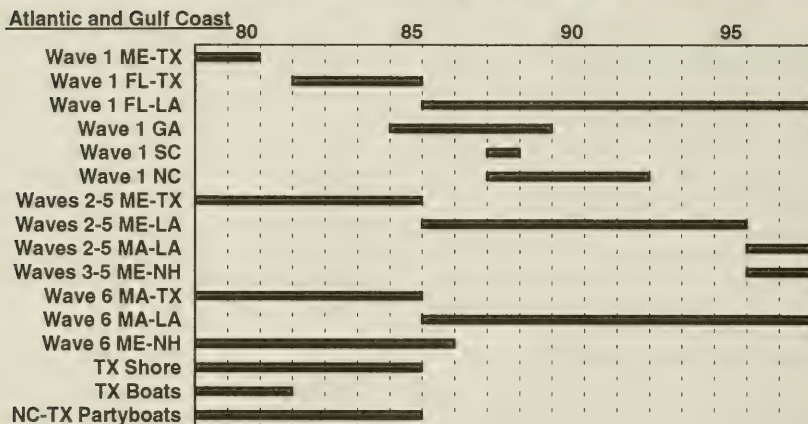
The most commonly caught non-bait species (numbers of fish) were Pacific (chub) mackerel, surf smelt, white croaker, kelp bass and barred sand bass. The largest harvests were California halibut, Pacific mackerel, Pacific barracuda, black rockfish, barred sandbass, and lingcod. The average weight for all fish combined was 0.9 pounds. Average weights for some of the top species were: 9.0 pounds for California halibut, 0.9 pounds for Pacific (chub) mackerel, 2.0 pounds for black rockfish, 1.5 pounds for barred sandbass, and 7.1 pounds for lingcod.

Surf smelt jumped from the 1993-1995 average of a little over a million fish to almost 5 million fish in 1996. California halibut catch has shown no real trend since 1993, ranging from a low of 347,000 fish in 1993 to a high of 924,000 fish in 1997. Pacific mackerel reached a 4-year high in 1996 with 6.0 million fish caught.

Seven percent of the total marine recreational catch on the Pacific coast came from the EEZ. The most commonly caught Pacific coast species in federally managed waters were Pacific mackerel, barred sand bass, yellowtail rockfish, blue rockfish, Pacific barracuda, kelp bass, and white croaker. The percent of the catch from the state territorial sea was about 60% in 1997, while the inland catch increased from 13-17% in the early 1990's to 33% for 1997.

U.S. MARINE RECREATIONAL FISHERIES

MRFSS Sampling Coverage by Wave, State, and Mode, 1979-1997.



Note: Salmon trips are excluded on the Pacific coast. Ocean-boat trips were excluded in WA in 1989 and in Oregon during July-August during 1987-1989 and 1993-1997.

**ESTIMATED NUMBER OF PEOPLE PARTICIPATING IN MARINE RECREATIONAL FISHING AND PSE (%) BY STATE
AND YEAR, 1993 TO 1997 FOR THE ATLANTIC COAST AND GULF COASTS.**

Year	North Atlantic sub-region											
	Maine		New Hampshire		Massachusetts		Rhode Island		Connecticut		Total (1)	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Number in thousands-----												
1993. . .	202	18	76	21	719	9	254	14	233	10	876	5
1994. . .	216	20	122	37	686	9	208	15	228	12	845	6
1995. . .	234	21	97	25	688	9	220	17	295	13	874	5
1996. . .	268	17	96	19	597	8	243	13	387	12	972	5
1997. . .	323	11	135	12	837	5	275	9	327	11	1,123	5

Year	Mid-Atlantic sub-region											
	New York		New Jersey		Delaware		Maryland		Virginia		Total (1)	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Number in thousands-----												
1993. . .	622	9	1,025	8	249	14	840	9	454	9	2,129	4
1994. . .	770	9	1,113	8	201	14	811	9	566	7	2,317	4
1995. . .	487	9	927	8	293	10	870	9	555	9	1,861	4
1996. . .	584	8	997	7	236	11	893	10	507	9	1,994	4
1997. . .	520	7	874	5	224	6	718	6	734	6	1,949	3

Year	South Atlantic sub-region											
	North Carolina		South Carolina		Georgia		East Florida		Total (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Number in thousands-----												
1993. . .	1,367	5	512	10	180	12	1,941	4	2,181		2	
1994. . .	1,480	5	580	10	323	12	2,167	3	2,529		2	
1995. . .	1,276	5	420	11	313	13	2,086	3	2,287		2	
1996. . .	1,150	6	471	10	210	13	1,841	4	1,835		3	
1997. . .	1,327	3	530	6	111	8	1,864	3	1,891		2	

Year	Gulf of Mexico sub-region											
	West Florida		Alabama		Mississippi		Louisiana		Total (1,2)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Number in thousands-----												
1993. . .	2,402	3	284	11	251	9	506	6	1,877		3	
1994. . .	2,665	3	275	10	240	10	446	6	1,931		2	
1995. . .	2,231	3	283	10	280	10	538	6	2,009		2	
1996. . .	2,251	3	258	11	230	11	493	7	1,818		3	
1997. . .	2,584	2	268	6	226	7	607	4	2,029		2	

- (1) Sub-region totals do not include out of state anglers since these can be counted multiple times, therefore, the sum of the fishing participants across states will not equals the totals shown in the last column.
- (2) Gulf of Mexico totals do not include Texas data.
- Note:--Est = Estimate. PSE (%) = Proportional standard error.

ESTIMATED NUMBER OF MARINE RECREATIONAL FISHING TRIPS AND PSE (%) BY STATE AND YEAR, 1993-1997 FOR THE ATLANTIC AND GULF COASTS.

Year	North Atlantic sub-region												Total (1)	
	Maine		New Hampshire		Massachusetts		Rhode Island		Connecticut					
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
----- Number in thousands -----														
1993.	608	12	197	14	3,094	5	1,109	9	1,218	10	6,225	4		
1994.	606	12	314	23	3,249	5	1,003	9	1,109	11	6,281	4		
1995.	628	13	286	15	3,368	5	885	10	1,347	12	6,513	4		
1996.	687	13	250	12	3,290	5	1,001	8	1,528	11	6,756	4		
1997.	854	10	338	11	4,138	5	1,163	8	1,132	13	7,625	4		

Year	Mid-Atlantic sub-region												Total (1)	
	New York		New Jersey		Delaware		Maryland		Virginia					
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
----- Number in thousands -----														
1993.	4,189	12	5,193	6	795	10	3,045	7	2,068	6	15,290	3		
1994.	4,380	12	5,659	5	692	11	2,872	7	2,634	5	16,237	3		
1995.	4,019	13	4,956	5	865	7	2,851	7	2,885	5	15,576	3		
1996.	4,372	13	5,500	4	816	7	3,027	7	2,786	5	16,502	3		
1997.	4,258	6	5,470	4	884	7	2,912	6	3,704	6	17,229	3		

Year	South Atlantic sub-region												Total (1)	
	North Carolina		South Carolina		Georgia		East Florida							
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
----- Number in thousands -----														
1993.	4,716	4	1,776	5	673	7	9,630	2	16,796	2				
1994.	5,170	3	1,987	6	956	9	11,815	2	19,928	1				
1995.	4,992	4	1,502	6	778	9	11,482	2	18,754	2				
1996.	4,605	4	1,390	6	577	9	10,251	2	16,823	2				
1997.	4,789	3	1,584	5	568	8	11,056	2	17,997	2				

Year	Gulf of Mexico sub-region												Total (1)	
	West Florida		Alabama		Mississippi		Louisiana							
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
----- Number in thousands -----														
1993.	12,928	2	933	6	866	6	2,704	4	17,431	1				
1994.	13,167	2	887	6	964	6	2,485	4	17,504	1				
1995.	12,159	2	977	5	1,033	6	2,947	4	17,115	1				
1996.	11,766	2	870	7	903	6	2,780	5	16,319	2				
1997.	12,978	2	1,000	6	985	5	3,140	4	18,103	2				

(1) Gulf of Mexico totals do not include Texas data.

Note:--Est = Estimate. PSE (%) = Proportional standard error.

ESTIMATED NUMBER OF PEOPLE PARTICIPATING IN MARINE RECREATIONAL FISHING AND PSE (%) BY STATE AND YEAR, 1993-1997 FOR THE PACIFIC COAST

Year	Pacific Coast sub-region									
	So. California		No. California		Oregon		Washington		Total(1)	
	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)
Number of thousands										
1993. . .	985	6	620	7	300	8	na	na	1,661	4
1994. . .	1,285	6	449	7	216	7	na	na	1,671	4
1995. . .	1,063	7	634	7	249	7	na	na	1,678	4
1996. . .	958	10	523	7	219	11	447	9	1,783	4
1997. . .	905	5	581	5	247	6	359	6	1,815	3

(1) Sub-region totals do not include out of state anglers since they can be counted multiple times, therefore, the sum of participants across states will not equal totals shown in the last column.

Note:--Est = Estimate. PSE (%) = Proportional standard error.

NA = Not available (Marine Recreational Fisheries Statistics Survey not conducted in Washington from 1993-1995).

ESTIMATED NUMBER OF MARINE RECREATIONAL FISHING TRIPS AND PSE(%) BY STATE AND YEAR, 1993-1997 FOR THE PACIFIC COAST

Year	Pacific Coast sub-region									
	So. California		No. California		Oregon		Washington		Total(1)	
	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)
Number of thousands										
1993. . .	4,038	4	2,152	5	704	6	NA	NA	6,893	3
1994. . .	4,748	4	1,968	6	471	5	NA	NA	7,187	3
1995. . .	4,300	4	2,340	5	579	5	NA	NA	7,220	3
1996. . .	3,682	4	1,934	4	491	8	1,658	9	7,765	3
1997. . .	3,232	4	1,906	5	593	7	1,455	6	7,187	3

Note:--Est = Estimate. PSE (%) = Proportional standard error.

NA = Not available (Marine Recreational Fisheries Statistics Survey not conducted in Washington from 1993-1995).

ESTIMATED NUMBER OF PEOPLE PARTICIPATING IN MARINE RECREATIONAL FISHING AND PSE (%) BY COAST AND YEAR, 1993-1997 U.S. TOTALS

Year	U.S. Totals						Total	
	Atlantic Coast		Gulf of Mexico		Pacific Coast		Total	
	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)
Number of thousands								
1993.	5,186	3	1,877	3	1,661	4	8,724	2
1994.	5,691	2	1,931	2	1,671	4	9,293	2
1995.	5,022	2	2,009	2	1,678	4	8,709	2
1996.	4,801	3	1,818	3	1,783	4	8,402	2
1997.	4,963	2	2,029	2	1,815	3	8,807	1

Note: Est = Estimate. PSE(%) = Proportional standard error. Totals only include continental U.S.

Texas data not included for all years and Washington not included for 1993-1995.

ESTIMATED NUMBER OF MARINE RECREATIONAL FISHING TRIPS AND PSE(%) BY COAST AND YEAR, 1993-1997 U.S. TOTALS

Year	U.S. Totals						Total	
	Atlantic Coast		Gulf of Mexico		Pacific Coast		Total	
	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)
Number of thousands								
1993.	38,311	1	17,431	1	6,893	3	62,635	1
1994.	42,446	1	17,504	1	7,187	3	67,137	1
1995.	40,843	1	17,115	1	7,220	3	65,178	1
1996.	40,081	1	16,319	2	7,765	3	64,165	1
1997.	42,850	1	18,103	2	7,187	3	68,140	1

Note: Est = Estimate. PSE(%) = Proportional standard error. Totals only include continental U.S.

Texas data not included for all years and Washington not included for 1993-1995.

U.S. MARINE RECREATIONAL FISHERIES

**ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) AND PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1993-1997 FOR THE
ATLANTIC AND GULF COASTS**

Year	Atlantic cod								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	2,270	11	423	15	0	0	0	0	2,693	10
1994. . .	1,749	8	112	23	0	0	0	0	1,861	8
1995. . .	1,747	15	195	19	0	0	0	0	1,942	14
1996. . .	1,061	10	19	24	0	0	0	0	1,080	10
1997. . .	841	14	22	21	0	0	0	0	863	14
Year	Atlantic croaker								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	0	0	14,136	6	2,921	5	3,959	7	21,016	5
1994. . .	0	0	17,472	5	5,753	5	3,445	6	26,671	3
1995. . .	0	0	12,246	6	2,970	7	2,537	6	17,753	4
1996. . .	0	0	12,082	6	2,245	5	2,539	7	16,867	5
1997. . .	0	0	18,059	7	2,698	6	3,468	6	24,225	5
Year	Atlantic mackerel								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	2,161	10	144	35	0	0	0	0	2,307	10
1994. . .	4,690	12	170	44	0	0	0	0	4,860	12
1995. . .	2,934	13	1,074	35	0	0	0	0	4,008	13
1996. . .	3,001	10	647	26	1	55	0	0	3,650	9
1997. . .	3,524	13	1,434	17	0	100	0	0	4,959	11
Year	Black drum								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	0	0	12	34	253	9	1,268	9	1,534	7
1994. . .	0	0	4	41	297	8	824	8	1,125	6
1995. . .	0	0	27	23	505	10	1,063	8	1,595	6
1996. . .	0	0	22	29	355	8	818	7	1,196	6
1997. . .	0	0	9	38	326	9	1,344	8	1,678	6
Year	Black sea bass								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	67	14	8,898	14	1,418	7	2,375	7	12,758	10
1994. . .	33	38	6,995	7	2,131	6	2,735	6	11,892	4
1995. . .	122	12	13,841	7	1,660	6	2,170	6	17,793	6
1996. . .	195	13	9,807	7	1,312	7	1,435	7	12,750	6
1997. . .	128	16	8,126	6	1,717	6	1,805	8	11,776	4

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

**ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) AND PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1993-1997 FOR THE
ATLANTIC AND GULF COASTS**

Year	Bluefish								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	2,425	5	4,516	5	2,984	4	376	12	10,301	3
1994. . .	2,220	6	6,190	6	3,510	4	484	12	12,405	3
1995. . .	2,022	6	5,113	5	3,341	5	464	12	10,940	3
1996. . .	2,810	7	5,135	5	1,954	4	471	12	10,370	3
1997. . .	2,579	6	6,163	5	3,584	4	602	10	12,927	3
Year	Dolphin								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	18	29	246	22	961	5	675	11	1,927	5
1994. . .	1	54	86	20	1,680	7	653	11	2,450	6
1995. . .	11	60	74	21	1,523	4	963	8	2,613	4
1996. . .	1	100	199	35	1,233	5	461	9	1,905	5
1997. . .	0	53	31	42	1,356	7	1,058	11	2,444	6
Year	Gag								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	0	0	0	0	86	19	1,652	6	1,738	6
1994. . .	0	0	0	0	137	15	2,095	5	2,232	5
1995. . .	0	0	0	0	123	12	2,416	5	2,539	5
1996. . .	0	0	0	0	96	12	1,494	5	1,590	5
1997. . .	0	0	0	0	90	14	2,074	5	2,164	5
Year	Gray snapper								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	0	0	0	0	745	7	4,408	4	5,154	4
1994. . .	0	0	0	0	1,312	8	3,534	5	4,845	4
1995. . .	0	0	0	0	1,315	12	3,237	5	4,552	5
1996. . .	0	0	0	0	1,084	8	3,330	6	4,413	5
1997. . .	0	0	0	0	1,487	10	3,840	5	5,327	4
Year	Gray triggerfish								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	1	52	89	23	154	13	661	8	906	7
1994. . .	1	53	31	27	115	10	686	8	834	6
1995. . .	0	100	38	28	131	13	661	8	830	7
1996. . .	1	50	106	34	162	12	392	8	662	8
1997. . .	3	82	63	28	153	14	357	8	576	7

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) AND PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1993-1997 FOR THE
ATLANTIC AND GULF COASTS

Year	Greater amberjack								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	0	0	694	19	67	12	380	10	1,141	12
1994. . .	0	0	1	52	98	13	233	11	332	9
1995. . .	0	0	2	73	35	16	126	14	164	11
1996. . .	0	0	25	37	90	13	142	9	258	8
1997. . .	0	0	2	100	47	18	95	14	144	11
Year	King mackerel								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	0	0	17	40	506	5	500	6	1,023	4
1994. . .	0	0	5	47	461	6	682	6	1,148	4
1995. . .	0	0	1	61	628	6	622	6	1,252	4
1996. . .	0	0	2	59	485	5	748	7	1,235	4
1997. . .	0	0	23	42	704	5	643	7	1,369	4
Year	Red drum								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	0	0	64	36	1,274	7	6,310	4	7,649	4
1994. . .	0	0	12	32	1,683	6	5,913	4	7,609	3
1995. . .	0	0	36	37	2,105	7	7,096	4	9,236	3
1996. . .	0	0	3	40	1,130	6	5,952	3	7,085	3
1997. . .	0	0	118	35	1,243	6	7,007	4	8,367	3
Year	Red snapper								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	0	0	0	0	87	23	2,458	5	2,546	5
1994. . .	0	0	0	0	95	21	1,916	6	2,011	5
1995. . .	0	0	0	0	69	16	1,539	6	1,609	6
1996. . .	0	0	0	0	34	24	1,700	6	1,733	6
1997. . .	0	0	0	0	48	35	2,924	5	2,972	5
Year	Sand seatrout								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	0	0	0	0	0	0	4,068	7	4,068	7
1994. . .	0	0	0	0	0	0	5,665	5	5,665	5
1995. . .	0	0	0	0	0	0	4,355	7	4,355	7
1996. . .	0	0	0	0	0	0	4,624	6	4,624	6
1997. . .	0	0	0	0	0	0	3,248	9	3,248	9

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

**ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) AND PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1993-1997 FOR THE
ATLANTIC AND GULF COASTS - Continued**

Year	Scup								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	4,337	8	2,723	8	17	24	0	0	7,077	6
1994. . .	2,431	7	3,192	13	39	41	0	0	5,662	8
1995. . .	2,572	7	1,111	20	5	27	0	0	3,688	8
1996. . .	3,533	9	1,321	13	4	34	0	0	4,858	7
1997. . .	1,835	11	996	17	11	40	0	0	2,842	9

Year	Sheepshead								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	0	0	1	74	1,263	14	4,329	5	5,593	5
1994. . .	0	0	4	78	1,715	8	2,663	5	4,383	5
1995. . .	0	0	14	42	1,538	8	3,552	6	5,118	5
1996. . .	0	0	2	59	944	6	2,593	5	3,542	4
1997. . .	0	0	22	71	783	8	3,024	6	3,829	5

Year	Southern flounder								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	0	0	2	73	509	6	572	8	1,083	5
1994. . .	0	0	0	0	830	6	539	7	1,369	4
1995. . .	0	0	0	0	740	7	706	6	1,446	5
1996. . .	0	0	1	59	454	7	738	7	1,192	5
1997. . .	0	0	43	31	599	6	625	7	1,267	5

Year	Spanish mackerel								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	1	62	197	14	949	6	2,506	6	3,653	4
1994. . .	0	0	341	13	1,502	6	2,007	5	3,850	4
1995. . .	0	0	147	23	847	6	1,574	9	2,568	6
1996. . .	0	0	100	35	1,069	6	1,818	7	2,988	5
1997. . .	0	0	91	34	1,299	6	2,066	7	3,456	5

Year	Spot								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Numbers in thousands-----									
1993. . .	0	0	7,713	8	5,562	7	988	33	14,263	6
1994. . .	0	0	8,815	5	9,449	6	227	33	18,491	4
1995. . .	0	0	5,343	8	6,039	6	185	29	11,567	5
1996. . .	0	0	2,668	10	4,630	9	66	27	7,364	7
1997. . .	0	0	6,916	10	2,827	8	103	75	9,846	7

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

U.S. MARINE RECREATIONAL FISHERIES

**ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) AND PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1993-1997 FOR THE
ATLANTIC AND GULF COASTS - Continued**

Year	Spotted seatrout								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Numbers in thousands -----									
1993. . .	0	0	176	16	2,336	5	19,026	3	21,538	3
1994. . .	0	0	425	11	2,319	6	19,438	3	22,181	3
1995. . .	0	0	579	19	3,425	5	20,610	3	24,615	3
1996. . .	0	0	304	19	1,976	5	18,282	3	20,563	3
1997. . .	0	0	285	15	2,370	6	23,139	3	25,794	3
Year	Striped bass								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Numbers in thousands -----									
1993. . .	1,692	9	3,080	9	13	40	15	25	4,900	6
1994. . .	3,243	7	5,241	9	22	23	15	34	8,636	6
1995. . .	5,190	7	5,405	8	63	13	30	30	10,839	5
1996. . .	6,799	8	6,987	7	297	9	18	24	14,101	5
1997. . .	8,757	5	7,836	7	395	8	21	39	17,009	4
Year	Summer flounder								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Numbers in thousands -----									
1993. . .	551	9	21,815	4	553	7	0	0	22,919	4
1994. . .	1,019	7	16,317	4	404	7	0	0	17,741	3
1995. . .	833	9	15,244	4	162	9	0	0	16,239	4
1996. . .	1,426	7	17,981	3	394	7	0	0	19,801	3
1997. . .	1,698	9	17,249	4	304	8	0	0	19,251	3
Year	Tautog								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Numbers in thousands -----									
1993. . .	718	8	3,491	7	5	22	0	0	4,215	6
1994. . .	729	10	1,921	8	3	32	0	0	2,653	7
1995. . .	583	11	3,228	8	4	31	0	0	3,816	7
1996. . .	547	9	1,726	8	7	31	0	0	2,279	6
1997. . .	387	11	1,245	8	12	42	0	0	1,643	6

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

**ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) AND PSE (%) BY
MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1993-1997 FOR THE
ATLANTIC AND GULF COASTS - Continued**

Year	Vermilion snapper								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Numbers in thousands -----									
1993. . .	0	0	0	0	139	17	1,090	8	1,228	7
1994. . .	0	0	0	0	119	13	706	9	826	8
1995. . .	0	0	0	0	171	23	1,029	8	1,200	8
1996. . .	0	0	0	0	110	18	357	9	467	8
1997. . .	0	0	0	0	117	18	348	14	465	11
Year	Weakfish								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Numbers in thousands -----									
1993. . .	2	43	1,828	7	388	10	0	0	2,219	6
1994. . .	1	100	4,290	6	638	9	0	0	4,929	5
1995. . .	2	53	5,359	6	378	10	0	0	5,739	5
1996. . .	1	53	7,250	5	343	10	0	0	7,594	5
1997. . .	3	46	5,850	5	601	8	0	0	6,455	5
Year	Winter flounder								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Numbers in thousands -----									
1993. . .	651	9	2,930	23	0	0	0	0	3,582	19
1994. . .	486	9	1,814	13	0	0	0	0	2,300	11
1995. . .	473	14	1,851	10	0	0	0	0	2,324	9
1996. . .	400	10	2,514	14	0	0	0	0	2,913	12
1997. . .	556	13	1,340	13	0	0	0	0	1,896	10
Year	All fishes								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Numbers in thousands -----									
1993. . .	20,991	3	97,574	2	50,887	2	147,332	2	316,784	1
1994. . .	25,880	8	94,945	2	72,173	1	148,856	3	341,854	1
1995. . .	21,983	5	88,522	2	65,240	1	135,781	3	311,526	1
1996. . .	23,427	4	86,419	2	51,257	2	118,625	2	279,728	1
1997. . .	23,781	3	96,548	2	58,295	1	39,819	2	318,443	1

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Year	Atlantic cod								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993. . .	5,190	17	1,949	20	0	0	0	0	7,139	14
1994. . .	4,083	25	203	27	0	0	0	0	4,285	24
1995. . .	3,437	20	1,164	17	0	0	0	0	4,601	16
1996. . .	3,260	21	72	27	0	0	0	0	3,332	20
1997. . .	2,550	25	71	11	0	0	0	0	2,622	24
Year	Atlantic croaker								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993. . .	0	0	2,481	9	537	8	593	10	3,611	6
1994. . .	0	0	4,019	6	851	9	602	17	5,472	5
1995. . .	0	0	3,374	8	661	18	392	18	4,426	7
1996. . .	0	0	3,815	8	413	9	433	12	4,661	7
1997. . .	0	0	7,258	10	492	12	328	14	8,078	9
Year	Atlantic mackerel								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993. . .	1,255	12	66	44	0	0	0	0	1,326	12
1994. . .	3,675	16	85	52	0	0	0	0	3,760	16
1995. . .	1,847	13	907	36	0	0	0	0	2,754	15
1996. . .	2,699	12	422	25	2	59	0	0	3,123	11
1997. . .	2,636	14	1,190	20	0	0	0	0	3,826	11
Year	Black drum								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993. . .	0	0	2	42	428	13	1,478	13	1,908	11
1994. . .	0	0	3	74	693	13	1,177	20	1,873	13
1995. . .	0	0	155	42	658	16	1,307	9	2,121	8
1996. . .	0	0	99	67	568	13	1,159	8	1,826	8
1997. . .	0	0	48	0	554	14	1,750	12	2,351	9
Year	Black sea bass								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993. . .	49	16	4,776	22	560	16	509	16	5,894	18
1994. . .	37	53	2,890	13	623	17	531	11	4,081	10
1995. . .	64	27	6,099	14	588	12	288	11	7,040	12
1996. . .	85	19	5,812	15	654	13	249	11	6,801	13
1997. . .	67	36	4,178	9	526	14	304	15	5,075	8

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Year	Bluefish								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993. . .	9,209	6	8,735	7	2,348	7	349	22	20,641	4
1994. . .	7,996	8	6,284	8	1,261	6	451	21	15,992	5
1995. . .	5,992	8	6,973	9	1,209	9	600	26	14,775	5
1996. . .	6,644	14	7,050	10	1,040	8	354	14	15,089	8
1997. . .	4,881	8	7,405	10	1,958	8	250	17	14,494	6
Year	Dolphin								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993. . .	143	21	1,783	40	5,368	6	3,524	13	10,818	9
1994. . .	0	0	393	30	9,619	8	2,765	15	12,778	7
1995. . .	0	0	754	27	12,142	5	6,896	9	19,792	5
1996. . .	0	0	522	49	7,387	6	4,640	12	12,549	6
1997. . .	0	0	208	44	10,380	7	11,934	14	22,521	8
Year	Gag								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993. . .	0	0	0	0	544	22	2,282	8	2,827	8
1994. . .	0	0	0	0	561	21	1,947	9	2,507	9
1995. . .	0	0	0	0	303	19	2,628	8	2,930	8
1996. . .	0	0	0	0	278	21	1,964	8	2,242	8
1997. . .	0	0	0	0	278	32	2,656	9	2,934	9
Year	Gray snapper								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1992. . .	0	0	0	0	369	12	1,091	7	1,460	6
1993. . .	0	0	0	0	245	13	1,124	8	1,369	7
1994. . .	0	0	0	0	281	10	1,136	9	1,417	8
1995. . .	0	0	0	0	320	14	1,058	8	1,378	7
1996. . .	0	0	0	0	231	13	955	8	1,187	7
1997. . .	0	0	0	0	373	19	877	11	1,249	10
Year	Gray triggerfish								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993. . .	1	0	106	25	177	17	1,182	11	1,465	9
1994. . .	2	78	39	32	142	13	1,165	11	1,348	10
1995. . .	0	0	65	32	97	15	1,017	9	1,179	8
1996. . .	1	65	155	43	183	15	496	11	836	11
1997. . .	0	0	167	31	168	22	589	10	925	10

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Year	Greater amberjack								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Thousands of pounds-----									
1993. . .	0	0	254	23	578	21	3,498	17	4,330	14
1994. . .	0	0	0	0	1,626	19	1,562	16	3,188	12
1995. . .	0	0	0	0	623	21	811	15	1,434	13
1996. . .	0	0	6	57	970	14	994	10	1,970	9
1997. . .	0	0	0	0	495	21	1,199	22	1,694	17
Year	King mackerel								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Thousands of pounds-----									
1993. . .	0	0	141	50	4,285	7	4,119	8	8,545	5
1994. . .	0	0	11	41	4,176	7	4,634	8	8,821	5
1995. . .	0	0	15	0	5,008	7	4,697	7	9,719	5
1996. . .	0	0	7	71	4,314	6	5,700	7	10,020	5
1997. . .	0	0	127	50	6,377	6	5,416	8	11,921	5
Year	Red drum								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Thousands of pounds-----									
1993. . .	0	0	46	11	1,168	8	8,710	5	9,924	5
1994. . .	0	0	4	0	1,439	9	7,528	5	8,970	4
1995. . .	0	0	66	0	1,661	11	11,939	4	13,665	4
1996. . .	0	0	2	0	1,333	8	11,708	5	13,043	4
1997. . .	0	0	2	0	798	10	12,011	5	12,811	5
Year	Red snapper								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Thousands of pounds-----									
1993. . .	0	0	0	0	142	27	4,136	7	4,278	7
1994. . .	0	0	0	0	201	36	3,734	8	3,935	8
1995. . .	0	0	0	0	67	20	2,876	8	2,943	8
1996. . .	0	0	0	0	102	35	2,617	8	2,719	8
1997. . .	0	0	0	0	88	44	4,456	11	4,544	11
Year	Sand seatrout								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Thousands of pounds-----									
1993. . .	0	0	0	0	0	0	2,090	10	2,090	10
1994. . .	0	0	0	0	0	0	2,884	6	2,884	6
1995. . .	0	0	0	0	0	0	2,002	8	2,002	8
1996. . .	0	0	0	0	0	0	1,889	8	1,889	8
1997. . .	0	0	0	0	0	0	1,453	15	1,453	15

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Year	Scup								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Thousands of pounds-----									
1993. . .	2,275	13	920	12	4	18	0	0	3,198	10
1994. . .	1,542	16	1,076	16	10	57	0	0	2,629	12
1995. . .	1,013	13	299	29	1	54	0	0	1,313	12
1996. . .	1,618	10	621	14	0	0	0	0	2,239	8
1997. . .	809	14	384	28	12	41	0	0	1,205	13
Year	Sheepshead								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Thousands of pounds-----									
1993. . .	0	0	0	0	1,879	13	4,577	6	6,456	6
1994. . .	0	0	0	0	2,902	10	2,734	8	5,636	6
1995. . .	0	0	9	77	2,597	11	4,901	6	7,507	6
1996. . .	0	0	5	58	1,702	8	3,348	6	5,055	5
1997. . .	0	0	2	0	1,060	11	3,790	9	4,852	8
Year	Southern flounder								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Thousands of pounds-----									
1993. . .	0	0	0	0	693	8	655	9	1,348	6
1994. . .	0	0	0	0	1,132	7	664	8	1,796	5
1995. . .	0	0	0	0	924	9	715	8	1,639	6
1996. . .	0	0	1	0	478	11	780	8	1,258	7
1997. . .	0	0	19	57	788	9	677	8	1,483	6
Year	Spanish mackerel								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Thousands of pounds-----									
1993. . .	1	0	175	18	1,262	7	1,941	7	3,378	5
1994. . .	0	0	214	14	1,158	6	1,762	6	3,135	4
1995. . .	0	0	145	29	672	8	1,630	9	2,447	6
1996. . .	0	0	81	46	986	9	1,637	7	2,704	6
1997. . .	0	0	22	35	1,415	8	2,095	9	3,533	6
Year	Spot								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Thousands of pounds-----									
1993. . .	0	0	1,591	11	1,780	7	108	56	3,479	7
1994. . .	0	0	1,956	6	2,372	8	55	42	4,383	5
1995. . .	0	0	1,571	10	1,536	7	50	42	3,158	6
1996. . .	0	0	832	12	1,214	12	5	51	2,051	9
1997. . .	0	0	1,724	13	976	12	3	44	2,703	9

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Year	Spotted seatrout								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Thousands of pounds-----									
1993. . .	0	0	214	22	1,554	7	8,295	5	10,064	4
1994. . .	0	0	202	14	1,633	6	9,342	4	11,178	3
1995. . .	0	0	178	18	2,030	8	10,361	5	12,569	4
1996. . .	0	0	78	22	803	8	9,665	5	10,545	4
1997. . .	0	0	299	21	1,079	8	9,431	5	10,808	5
Year	Striped bass								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Thousands of pounds-----									
1993. . .	1,846	10	3,803	12	16	38	1	0	5,666	9
1994. . .	2,284	10	4,443	9	77	31	9	37	6,813	7
1995. . .	2,657	8	8,365	9	237	15	5	17	11,264	7
1996. . .	3,441	9	10,885	6	288	13	6	36	14,619	5
1997. . .	5,132	7	10,214	7	765	13	13	63	16,125	5
Year	Summer flounder								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Thousands of pounds-----									
1993. . .	552	11	7,812	5	479	7	0	0	8,844	4
1994. . .	980	9	7,886	4	481	7	0	0	9,347	4
1995. . .	858	11	4,394	5	251	23	0	0	5,503	5
1996. . .	1,232	8	8,777	4	407	7	0	0	10,416	3
1997. . .	1,058	13	10,442	5	381	9	0	0	11,881	4
Year	Tautog								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	-----Thousands of pounds-----									
1993. . .	1,673	10	4,244	11	10	64	0	0	5,927	8
1994. . .	1,119	14	2,346	19	3	0	0	0	3,468	13
1995. . .	959	16	3,641	10	3	33	0	0	4,604	9
1996. . .	918	13	2,336	13	12	31	0	0	3,266	10
1997. . .	551	15	1,587	14	58	52	0	0	2,196	11

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Year	Vermilion snapper								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993. . .	0	0	0	0	98	23	759	11	857	10
1994. . .	0	0	0	0	73	19	608	13	681	12
1995. . .	0	0	0	0	44	21	564	11	608	10
1996. . .	0	0	0	0	79	45	229	14	309	15
1997. . .	0	0	0	0	73	20	342	16	415	14
Year	Weakfish								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993. . .	7	59	887	11	209	13	0	0	1,102	9
1994. . .	0	0	1,471	11	324	11	0	0	1,796	10
1995. . .	0	0	1,689	8	163	18	0	0	1,852	7
1996. . .	0	0	2,849	7	102	10	0	0	2,951	7
1997. . .	1	0	3,424	8	261	12	0	0	3,687	8
Year	Winter flounder								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993. . .	559	12	1,570	30	0	0	0	0	2,130	22
1994. . .	393	12	1,104	17	0	0	0	0	1,497	13
1995. . .	389	23	1,161	13	0	0	0	0	1,549	11
1996. . .	328	12	1,383	14	0	0	0	0	1,712	11
1997. . .	501	16	1,000	16	0	0	0	0	1,501	12
Year	All fishes								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	----- Thousands of pounds -----									
1993. . .	24,298	5	55,082	4	37,346	2	68,519	2	185,244	2
1994. . .	23,915	6	45,859	3	50,089	3	63,572	2	183,436	1
1995. . .	19,788	6	58,870	8	50,444	2	73,055	2	202,157	3
1996. . .	21,286	6	55,744	3	43,757	3	64,567	2	185,354	2
1997. . .	19,319	5	60,237	3	49,316	3	79,314	3	208,185	2

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) AND PSE (%)
BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1997 FOR THE PACIFIC COAST

Year	Barred sandbass		barred surfperch		Black rockfish		Blue rockfish		Bocaccio	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Number in thousands-----										
1993. .	1,542	4	678	9	949	6	1,862	7	147	14
1994. .	1,487	5	385	11	693	7	544	7	179	14
1995. .	1,514	6	672	10	631	6	440	7	24	18
1996. .	1,637	4	561	12	605	7	631	7	68	14
1997. .	1,411	6	611	13	595	9	736	13	65	23
Year	Brown rockfish		Cabezon		California halibut		Canary Rockfish		Chilipepper rockfish	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Number in thousands-----										
1993. .	154	9	109	7	347	7	231	7	46	25
1994. .	67	14	76	9	491	6	178	8	56	18
1995. .	80	11	85	11	924	6	201	10	28	26
1996. .	111	9	111	8	683	6	131	8	55	18
1997. .	101	19	74	12	510	7	115	14	3	39
Year	Copper rockfish		Corbina		Gopher rockfish		Grass rockfish		Kelp bass	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Number in thousands-----										
1993. .	156	9	17	18	299	10	32	13	2,610	5
1994. .	159	11	26	17	216	10	17	17	1,848	4
1995. .	77	10	57	17	92	12	15	18	1,599	6
1996. .	234	8	33	15	113	10	15	16	1,634	5
1997. .	102	11	24	19	76	13	21	20	1,723	7
Year	Kelp greenling		Lingcod		Pacific barracuda		Pacific bonito		Pacific cod	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Number in thousands-----										
1993. .	209	8	381	5	1,250	6	630	7	0	0
1994. .	101	9	262	6	1,765	6	346	10	1	63
1995. .	95	9	243	6	1,379	6	100	13	0	0
1996. .	226	8	356	6	566	6	140	11	12	45
1997. .	176	10	282	7	849	7	202	9	2	30
Year	Pacific chub mackerel		Pacific sardine		Pile perch		Quilback rockfish		Redtail surfperch	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Number in thousands-----										
1993. .	4,651	4	329	17	33	19	34	34	69	17
1994. .	5,313	4	368	42	31	13	9	14	90	17
1995. .	5,146	5	73	38	29	25	5	24	91	14
1996. .	5,931	4	288	22	159	22	58	13	112	22
1997. .	5,721	7	164	21	46	16	48	15	41	24

Note:--Est = estimate. PSE (%) = Proportional standard error.

1993-1995 Estimates do not include Washington as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

**ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) AND PSE (%)
BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1997 FOR THE PACIFIC COAST**

Year	Sheephead (Cal.)		Silver surfperch		Striped bass		Striped seaperch		Surf smelt	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Number in thousands-----										
1993. .	68	11	110	17	101	13	132	9	1,632	26
1994. .	87	11	46	19	115	12	73	13	1,202	28
1995. .	60	14	57	16	151	12	98	19	1,413	25
1996. .	77	12	60	20	174	9	286	12	4,807	25
1997. .	47	19	115	21	169	11	113	19	1,624	45
Year	White croaker		White sturgeon		Yellowtail		Yellowtail rockfish		All fishes	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Number in thousands-----										
1993. .	2,019	5	22	16	120	10	284	8	30,922	2
1994. .	900	9	5	30	24	15	164	8	27,169	2
1995. .	1,408	15	47	19	30	16	140	8	27,609	2
1996. .	1,958	7	22	15	64	10	83	10	34,047	4
1997. .	1,063	10	26	17	855	9	352	21	7	3

Note:--Est = estimate. PSE (%) = Proportional standard error.

1993-1995 Estimates do not include Washington state data as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

**ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE
RECREATIONAL ANGLERS BY SPECIES, 1993-1997 FOR THE PACIFIC COAST**

Year	Barred sandbass		barred surfperch		Black rockfish		Blue rockfish		Bocaccio	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993. .	1,048	6	315	13	1,621	7	1,310	7	271	14
1994. .	1,034	7	167	14	1,150	8	503	8	424	17
1995. .	1,468	8	354	12	1,121	7	395	8	68	21
1996. .	1,305	6	313	15	1,178	7	607	8	219	16
1997. .	790	12	231	15	1,173	9	652	12	116	25
Year	Brown rockfish		Cabezon		California halibut		Canary Rockfish		Chilipepper rockfish	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993. .	148	11	262	8	596	11	251	7	36	41
1994. .	59	14	171	9	790	9	184	8	50	20
1995. .	97	12	186	13	2,349	8	266	9	23	26
1996. .	105	10	254	9	1,159	9	174	9	71	20
1997. .	109	20	195	13	875	10	178	14	3	31

1993-1995 Estimates do not include Washington state data as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE
RECREATIONAL ANGLERS BY SPECIES, 1993-1997 FOR THE PACIFIC COAST

Year	Copper rockfish		Corbina		Gopher rockfish		Grass rockfish		Kelp bass	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993. .	218	10	12	21	224	11	38	17	1,434	6
1994. .	203	12	14	26	174	11	22	16	1,395	6
1995. .	116	12	37	21	82	13	15	17	1,131	7
1996. .	350	9	33	24	83	11	21	17	816	6
1997. .	166	12	15	36	56	14	21	22	767	9
Year	Kelp greenling		Lingcod		Pacific barracuda		Pacific bonito		Pacific cod	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993. .	195	8	1,605	6	1,688	9	707	9	0	0
1994. .	95	9	906	8	2,016	8	519	10	1	72
1995. .	85	10	856	9	2,491	8	177	16	0	0
1996. .	206	9	1,127	7	1,027	8	91	17	16	45
1997. .	164	11	878	10	1,700	8	412	12	2	0
Year	Pacific chub mackerel		Pacific sardine		Pile perch		Quilback rockfish		Redtail surfperch	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993. .	1,373	6	51	20	37	23	94	41	58	19
1994. .	2,225	8	42	34	26	14	16	15	70	18
1995. .	2,163	8	4	69	20	23	8	20	62	15
1996. .	1,640	5	19	30	171	24	81	15	102	23
1997. .	2,126	20	14	28	43	18	79	17	36	27
Year	Sheephead (Cal.)		Silver surfperch		Striped bass		Striped seaperch		Surf smelt	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993. .	154	21	23	17	106	18	130	10	159	27
1994. .	234	17	10	21	104	19	61	16	90	28
1995. .	106	19	18	19	380	15	99	21	122	24
1996. .	174	16	17	23	311	13	259	13	514	29
1997. .	114	28	27	26	327	15	104	18	120	44
Year	White croaker		White sturgeon		Yellowtail		Yellowtail rockfish		All fishes	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993. .	425	7	207	24	943	11	249	8	20,935	2
1994. .	174	15	44	36	209	18	179	8	17,924	2
1995. .	410	21	764	21	308	17	198	9	24,313	2
1996. .	614	9	641	16	660	14	237	13	23,191	2
1997. .	328	20	549	15	3,234	10	451	21	26,007	3

Note:--Est = estimate. PSE (%) = Proportional standard error.

1993-1995 Estimates do not include Washington state data as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

Year	Atlantic cod						Atlantic croaker								
	Inland			Ocean 3 to 200 miles			Inland			Ocean 3 to 3 miles			Ocean 3 to 200 miles		
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	
															Number in thousands
1993. .	80	22	263	14	2,350	11	17,594	5	2,702	7	721	19			
1994. .	297	25	318	15	1,247	9	21,197	4	4,945	6	528	15			
1995. .	63	29	154	19	1,725	15	14,126	5	2,853	7	774	25			
1996. .	29	36	89	15	962	11	12,590	6	3,435	8	841	13			
1997. .	35	28	130	25	825	15	20,396	6	3,154	10	1,819	13			
Year	Atlantic mackerel						Black drum								
	Inland			Ocean 3 to 200 miles			Inland			Ocean 3 to 3 miles			Ocean 3 to 200 miles		
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	
															Number in thousands
1993. .	1,097	16	472	15	737	17	964	9	510	15	60	26			
1994. .	1,595	14	2,188	19	1,078	30	810	8	276	8	39	27			
1995. .	1,445	23	1,071	17	1,493	25	1,010	8	525	10	60	38			
1996. .	683	13	1,400	15	1,566	16	915	7	261	8	20	16			
1997. .	867	21	2,402	15	1,923	19	1,420	7	238	10	51	26			
Year	Black sea bass						Bluefish								
	Inland			Ocean 3 to 200 miles			Inland			Ocean 3 to 3 miles			Ocean 3 to 200 miles		
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	
															Number in thousands
1993. .	2,892	7	4,429	24	5,437	10	5,382	4	3,736	4	1,184	8			
1994. .	4,208	6	2,241	6	5,443	8	6,726	5	4,774	4	904	9			
1995. .	5,652	7	2,662	7	9,479	9	5,201	4	4,862	5	876	8			
1996. .	3,705	9	1,755	7	7,289	8	5,676	5	3,406	4	1,289	11			
1997. .	3,626	9	2,552	7	7,897	7	6,509	5	5,425	5	1,168	8			
Year	Dolphin						Gag								
	Inland			Ocean 3 to 200 miles			Inland			Ocean 3 to 3 miles			Ocean 3 to 200 miles		
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	
															Number in thousands
1993. .	40	33	265	14	1,620	6	284	15	466	12	988	7			
1994. .	24	28	220	35	2,206	5	583	10	744	9	905	7			
1995. .	1	100	315	9	2,297	4	386	10	566	10	1,588	6			
1996. .	12	29	179	12	1,714	6	364	10	399	9	827	6			
1997. .	1	71	224	14	2,238	7	599	9	734	10	843	8			

Note:--Est= Estimate. PSE (%) = Proportional standard error. "Ocean to 3 miles" includes trips off of Florida's west coast from 0 to 10 miles from shore (state territorial waters) while "Ocean 3 to 200 miles" includes only trips off Florida's west coast beyond 10 miles from shore. Estimates do not include Texas data.

**ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) AND PSE (%)
BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1993-1997 FOR THE ATLANTIC AND GULF COASTS**

Year	Gray snapper						Gray triggerfish					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993..	2,530	5	2,194	7	430	11	39	20	324	12	543	8
1994..	2,445	6	1,943	6	458	15	44	22	256	10	534	9
1995..	1,972	8	2,170	6	410	12	27	21	262	13	541	8
1996..	1,998	8	1,731	7	685	10	43	20	225	13	394	11
1997..	2,671	7	2,537	6	131	14	47	22	199	13	369	11
Year	Greater amberjack						King mackerel					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993..	16	36	814	16	311	10	31	24	545	6	448	5
1993..	19	50	41	19	272	10	54	21	464	6	631	6
1993..	4	61	43	24	116	13	52	20	474	6	726	6
1996..	2	52	69	16	187	9	25	24	467	9	742	5
1997..	0	100	22	30	122	12	41	34	434	8	908	5
Year	Red drum						Red snapper					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993..	5,905	4	1,494	8	250	16	45	32	205	16	2,296	6
1994..	5,916	4	1,560	6	132	17	32	24	223	12	1,756	6
1995..	6,803	4	2,296	5	137	12	17	32	226	16	1,365	6
1996..	5,524	4	1,409	5	152	13	12	35	358	17	1,363	6
1997..	6,688	4	1,712	6	237	17	66	23	444	10	2,495	6
Year	Sand seatrout						Scup					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993..	2,033	9	1,586	12	449	22	4,867	6	1,188	13	1,022	23
1994..	3,505	7	1,705	10	455	17	3,619	11	1,077	12	965	16
1995..	2,582	9	1,498	11	275	20	1,573	9	1,201	13	913	23
1996..	2,152	7	1,847	10	625	23	3,576	9	946	13	335	21
1997..	1,197	12	1,522	13	591	35	2,112	11	656	17	309	15

Note:---Est= Estimate. PSE (%) = Proportional standard error. "Ocean to 3 miles" includes trips off of Florida's west coast from 0 to 10 miles from shore (state territorial waters) while "Ocean 3 to 200 miles" includes only trips off Florida's west coast beyond 10 miles from shore. Estimates do not include Texas data.

**ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) AND PSE (%)
BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1993-1997 FOR THE ATLANTIC AND GULF COASTS**

Year	Sheepshead						Southern flounder					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
1993. .	4,450	5	980	12	163	23	822	6	243	12	17	25
1994. .	3,369	5	891	8	123	18	1,085	5	259	9	25	22
1995. .	3,984	6	973	8	161	18	1,128	5	299	9	19	36
1996. .	2,693	5	698	7	151	15	965	6	207	12	19	54
1997. .	2,843	6	886	12	153	24	899	5	353	8	29	28
Year	Spanish mackerel						Spot					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
1993. .	1,040	8	2,208	6	404	9	10,186	7	4,058	9	19	43
1994. .	1,122	7	2,251	4	477	12	9,816	4	8,556	7	119	21
1995. .	396	9	1,659	6	513	23	4,695	6	6,759	7	113	23
1996. .	1,121	10	1,330	6	537	8	3,139	8	4,128	11	97	30
1997. .	1,339	10	1,592	6	534	10	6,229	7	3,594	15	82	45
Year	Spotted seatrout						Striped bass					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
1993. .	15,791	4	5,402	5	344	17	3,475	9	1,105	8	220	15
1994. .	15,284	3	6,486	4	412	14	6,557	8	1,580	8	384	15
1995. .	15,566	3	8,735	4	314	17	7,141	7	2,859	8	688	11
1996. .	13,885	3	6,388	4	289	16	9,323	7	3,955	6	822	9
1997. .	18,254	4	7,344	5	554	17	11,634	6	4,615	6	1,166	9

Note:--Est= Estimate. PSE (%) = Proportional standard error. "Ocean to 3 miles" includes trips off of Florida's west coast from 0 to 10 miles from shore (state territorial waters) while "Ocean 3 to 200 miles" includes only trips off Florida's west coast beyond 10 miles from shore. Estimates do not include Texas data.

**ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) AND PSE (%)
BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1993-1997 FOR THE ATLANTIC AND GULF COASTS**

Year	Summer flounder						Tautog					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	14,724	4	7,648	7	547	14	2,904	7	771	17	540	11
1994. .	11,963	4	5,326	6	452	15	1,682	9	366	17	605	13
1995. .	12,401	5	3,172	7	665	14	1,992	9	1,155	14	668	15
1996. .	12,936	4	5,969	5	896	10	1,054	8	543	18	683	10
1997. .	12,822	4	5,861	5	1,361	9	872	9	398	13	507	12
Year	Vermilion snapper						Weakfish					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	10	50	159	17	1,059	8	1,738	7	346	15	135	27
1994. .	2	100	142	23	683	8	3,687	6	744	10	498	17
1995. .	8	53	351	15	841	9	4,553	6	898	12	288	19
1996. .	0	100	93	19	374	9	6,217	6	974	10	402	14
1997. .	1	98	50	29	419	12	5,049	5	1,395	13	374	16
Year	Winter flounder						All fishes					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	3,120	21	382	14	81	20	187,752	2	91,952	2	37,080	2
1994. .	2,038	12	233	13	29	32	204,137	2	100,690	1	37,028	2
1995. .	2,106	9	152	17	66	52	163,466	2	100,462	3	47,598	4
1996. .	2,739	13	155	15	19	25	161,205	2	80,685	2	37,838	2
1997. .	1,896	11	784	16	13	32	200,534	3	98,143	2	38,684	2

Note:--Est= Estimate. PSE (%) = Proportional standard error. "Ocean to 3 miles" includes trips off of Florida's west coast from 0 to 10 miles from shore (state territorial waters) while "Ocean 3 to 200 miles" includes only trips off Florida's west coast beyond 10 miles from shore. Estimates do not include Texas data.

Year	Atlantic cod						Atlantic croaker					
	Inland			Ocean to 3 miles			Inland			Ocean to 3 miles		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
1993..	106	39	467	21	6,566	15	3,177	7	328	11	105	32
1994..	304	30	553	22	3,428	30	4,595	6	756	15	121	27
1995..	87	47	196	24	4,318	17	3,800	7	339	12	288	41
1996..	105	80	220	25	3,007	22	3,629	8	525	11	507	18
1997..	38	64	343	41	2,241	27	6,453	11	768	25	857	18
Year	Atlantic mackerel						Black drum					
	Inland			Ocean to 3 miles			Inland			Ocean to 3 miles		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
1993..	375	18	271	19	681	20	1,258	11	516	26	133	36
1994..	646	19	2,114	22	999	35	1,084	11	663	33	126	32
1995..	474	19	1,014	20	1,266	27	1,407	11	575	14	139	31
1996..	564	17	1,393	18	1,166	18	1,395	9	386	12	44	22
1997..	584	25	1,684	16	1,558	19	1,580	11	641	18	131	44
Year	Black sea bass						Bluefish					
	Inland			Ocean to 3 miles			Inland			Ocean to 3 miles		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
1993..	562	18	2,188	41	3,143	18	9,979	6	5,816	6	4,846	10
1994..	377	12	453	13	3,251	12	8,128	7	5,172	8	2,692	14
1995..	608	15	476	20	5,956	14	7,268	8	3,989	10	3,517	11
1996..	481	16	560	18	5,759	15	5,365	11	3,919	9	5,804	17
1997..	312	18	572	13	4,191	9	4,737	10	6,023	9	3,734	13
Year	Dolphin						Gag					
	Inland			Ocean to 3 miles			Inland			Ocean to 3 miles		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
1993..	65	38	1,138	17	9,615	9	91	37	529	15	2,207	9
1994..	76	49	1,335	40	11,367	6	158	30	418	17	1,931	10
1995..	10	100	2,659	11	17,123	5	222	20	516	20	2,193	9
1996..	63	31	1,389	18	11,096	7	126	24	447	16	1,669	9
1997..	5	100	1,710	23	20,807	9	314	19	822	19	1,798	12

Note:--Est= Estimate. PSE (%) = Proportional standard error. "Ocean to 3 miles" includes trips off of Florida's west coast from 0 to 10 miles from shore (state territorial waters) while "Ocean 3 to 200 miles" includes only trips off Florida's west coast beyond 10 miles from shore. Estimates do not include Texas data.

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS,
BY SPECIES AND FISHING AREA, 1993-1997 FOR THE ATLANTIC AND GULF COASTS.

58

U.S. MARINE RECREATIONAL FISHERIES

Year	Gray snapper						Gray triggerfish					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
1993. .	386	8	647	11	336	18	49	21	514	17	902	11
1994. .	412	9	583	11	422	19	43	30	362	21	944	11
1995. .	388	10	499	10	491	14	26	28	334	17	820	9
1996. .	325	11	437	11	425	14	42	23	188	17	606	14
1997. .	369	19	761	13	119	19	75	23	205	20	645	12
----- Thousands of pounds -----												
Year	Greater amberjack						King mackerel					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
1993. .	0	62	1,099	15	3,231	19	121	30	4,171	8	4,253	6
1994. .	273	64	379	44	2,537	12	353	23	3,523	10	4,944	6
1995. .	73	100	332	32	1,029	13	287	21	3,715	8	5,717	6
1996. .	0	0	446	21	1,524	10	187	29	3,396	8	6,436	6
1997. .	0	0	280	39	1,415	19	268	37	3,642	9	8,011	6
----- Thousands of pounds -----												
Year	Red drum						Red snapper					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
1993. .	6,987	6	2,210	9	727	15	60	71	344	15	3,873	7
1994. .	6,589	5	1,919	8	463	23	38	31	396	17	3,500	9
1995. .	10,109	5	2,860	6	697	21	5	83	329	17	2,609	9
1996. .	9,099	5	3,063	8	880	19	3	100	254	23	2,462	9
1997. .	8,744	6	3,203	9	864	23	44	51	459	16	4,041	12
----- Thousands of pounds -----												
Year	Sand seatrout						Scup					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
1993. .	781	10	819	16	490	29	1,942	7	498	17	758	34
1994. .	1,663	8	877	12	344	19	1,721	17	564	15	343	22
1995. .	1,077	10	769	14	155	22	464	22	468	16	382	24
1996. .	832	12	768	12	289	23	1,528	10	508	17	203	31
1997. .	532	15	583	19	338	51	761	18	339	24	106	23
----- Thousands of pounds -----												

Note: --Est= Estimate. PSE (%) = Proportional standard error. "Ocean to 3 miles" includes trips off of Florida's west coast from 0 to 10 miles from shore (state territorial waters) while "Ocean 3 to 200 miles" includes only trips off Florida's west coast beyond 10 miles from shore. Estimates do not include Texas data.

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1993-1997 FOR THE ATLANTIC AND GULF COASTS.

Year	Sheepshead										Southern flounder									
	Inland					Ocean 3 to 200 miles					Inland					Ocean 3 to 200 miles				
	Est		PSE (%)			Est		PSE (%)			Est		PSE (%)			Est		PSE (%)		
----- Thousands of pounds-----																				
1993.	5,025	7	1,078	12		353		36			1,010	7		305		12		34		30
1994.	4,198	8	1,262	12		176		25			1,435	6		320		11		42		30
1995.	5,362	7	1,690	12		455		27			1,264	7		350		14		24		41
1996.	3,554	6	1,164	9		337		23			1,021	7		189		14		48		56
1997.	3,078	7	1,443	19		330		26			998	7		449		11		36		35

Year	Spanish mackerel										Spot									
	Inland					Ocean 3 to 200 miles					Inland					Ocean 3 to 200 miles				
	Est		PSE (%)			Est		PSE (%)			Est		PSE (%)			Est		PSE (%)		
----- Thousands of pounds-----																				
1993.	826	10	1,881	7		671		10			2,244	9		1,234		10		1		55
1994.	719	8	1,911	6		505		9			2,211	6		2,144		9		28		29
1995.	348	12	1,392	8		708		14			1,380	8		1,755		9		22		34
1996.	799	10	1,244	8		661		11			968	11		1,068		14		15		45
1997.	932	13	1,622	8		979		14			1,971	10		1,002		18		30		105

Year	Spotted seatrout										Striped bass									
	Inland					Ocean 3 to 200 miles					Inland					Ocean 3 to 200 miles				
	Est		PSE (%)			Est		PSE (%)			Est		PSE (%)			Est		PSE (%)		
----- Thousands of pounds-----																				
1993.	7,268	5	2,450	7		345		20			2,718	9		2,188		19		760		18
1994.	7,395	4	3,520	6		263		16			4,160	10		2,296		10		357		20
1995.	8,554	5	3,821	5		194		24			6,001	8		4,403		13		861		12
1996.	7,067	6	3,303	7		175		24			6,004	7		6,959		8		1,656		16
1997.	7,023	6	3,268	8		518		32			7,024	7		6,349		8		2,752		13

Note:--Est= Estimate. PSE (%) = Proportional standard error. "Ocean to 3 miles" includes trips off of Florida's west coast from 0 to 10 miles from shore (state territorial waters) while "Ocean 3 to 200 miles" includes only trips off Florida's west coast beyond 10 miles from shore. Estimates do not include Texas data.

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1993-1997 FOR THE ATLANTIC AND GULF COASTS.

Year	Summer flounder						Tautog					
	Inland			Ocean 3 to 200 miles			Inland			Ocean 3 to 200 miles		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
----- Thousands of pounds -----												
1993. .	5,563	5	3,052	9	229	21	3,824	10	1,065	19	1,038	22
1994. .	6,461	5	2,564	7	321	18	2,029	20	510	23	929	22
1995. .	4,084	6	1,196	9	224	17	2,388	13	1,407	16	809	19
1996. .	6,256	4	3,483	6	676	14	1,516	13	702	23	1,048	18
1997. .	6,430	5	4,352	8	1,100	14	1,025	15	626	24	545	18
----- Vermilion snapper -----												
----- Weakfish -----												
Year	Inland			Ocean 3 to 200 miles			Inland			Ocean 3 to 200 miles		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
	----- Thousands of pounds -----											
1993. .	2	78	96	24	760	11	882	11	184	18	37	41
1994. .	0	0	92	44	589	11	1,320	12	318	14	157	21
1995. .	2	73	159	18	447	12	1,486	8	311	19	55	24
1996. .	0	0	60	23	249	18	2,417	8	452	18	83	17
1997. .	1	98	47	34	368	15	2,879	8	622	23	186	27
----- All fishes -----												
Year	Inland			Ocean 3 to 200 miles			Inland			Ocean 3 to 200 miles		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
	----- Thousands of pounds -----											
1993. .	1,766	27	309	19	55	28	67,278	2	50,334	4	67,633	3
1994. .	1,311	14	163	17	23	39	70,268	2	47,577	2	65,591	3
1995. .	1,362	12	108	24	79	65	68,871	2	47,165	3	86,120	6
1996. .	1,617	12	80	18	15	34	66,313	2	47,625	3	71,416	3
1997. .	1,318	13	172	22	11	59	71,076	2	56,877	3	80,232	3

Note:--Est= Estimate. PSE (%) = Proportional standard error. "Ocean to 3 miles" includes trips off of Florida's west coast from 0 to 10 miles from shore (state territorial waters) while "Ocean 3 to 200 miles" includes only trips off Florida's west coast beyond 10 miles from shore. Estimates do not include Texas data.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) AND PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND PRIMARY FISHING AREA, 1993-1997 FOR THE PACIFIC COAST

Year	Barred sandbass						Barred surfperch					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
1993. .	314	10	701	6	527	7	21	24	657	10	0	0
1994. .	239	12	1,056	6	193	10	4	47	381	12	0	100
1995. .	293	19	841	7	379	10	8	33	664	10	0	0
1996. .	271	10	1,026	6	339	9	18	38	543	12	0	0
1997. .	258	12	1,106	7	47	15	11	37	601	13	0	0
-----Number in thousands-----												
Year	Black rockfish						Blue rockfish					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
1993. .	51	14	811	7	87	15	21	24	1,786	7	55	12
1994. .	27	17	656	7	11	27	0	64	490	8	53	19
1995. .	22	18	580	7	29	19	9	56	418	8	14	27
1996. .	59	15	491	8	56	14	11	30	502	8	118	20
1997. .	40	17	523	10	32	28	6	40	532	10	198	38
-----Number in thousands-----												
Year	Bocaccio						Cabezon					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
1993. .	7	48	21	17	119	16	14	14	90	8	4	28
1994. .	0	100	26	25	152	16	6	17	67	10	3	28
1995. .	0	0	6	29	18	22	4	30	79	12	2	44
1996. .	1	79	23	18	45	19	24	16	85	10	2	24
1997. .	0	0	20	24	45	32	12	26	61	13	1	39
-----Number in thousands-----												
Year	California halibut						Canary rockfish					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
1993. .	138	11	166	9	42	18	3	29	189	9	38	15
1994. .	191	10	263	9	37	17	0	0	160	9	18	14
1995. .	446	8	451	9	26	19	1	100	156	13	44	11
1996. .	286	8	345	9	53	14	1	45	83	10	46	13
1997. .	183	10	322	9	4	33	1	48	73	12	40	33
-----Number in thousands-----												

Note:--Est= Estimate. PSE (%) = Proportional standard error.

1993-1995 Estimates do not include Washington state data as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) AND PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND PRIMARY FISHING AREA, 1993-1997 FOR THE PACIFIC COAST

Year	Chilipepper rockfish						Kelp bass					
	Inland			Ocean 3 to 3 miles			Ocean 3 to 200 miles			Inland		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
1993..	0	0	12	31	34	33	131	13	1,863	6	616	9
1994..	0	0	10	60	47	17	101	14	1,348	5	399	9
1995..	0	0	6	56	22	29	104	19	1,313	6	182	15
1996..	0	0	3	38	52	19	69	17	1,352	5	213	13
1997..	0	0	2	40	1	93	104	16	1,555	8	64	18
-----Number in thousands-----												
Year	Kelp greenling						Lingcod					
	Inland			Ocean 3 to 3 miles			Ocean 3 to 200 miles			Ocean 3 to 200 miles		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
1993..	83	15	122	9	4	37	26	13	315	6	40	12
1994..	23	18	77	10	1	39	9	34	235	7	18	13
1995..	31	15	63	11	1	41	13	27	204	7	26	15
1996..	158	10	66	11	2	34	112	13	203	7	41	10
1997..	129	12	46	12	2	32	106	12	146	8	31	26
-----Number in thousands-----												
Year	Pacific barracuda						Pacific cod					
	Inland			Ocean 3 to 3 miles			Ocean 3 to 200 miles			Ocean 3 to 200 miles		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
1993..	74	30	785	8	391	8	0	0	0	0	0	0
1994..	61	25	1,107	8	597	9	0	0	1	63	0	0
1995..	41	30	1,136	7	202	11	0	0	0	0	0	0
1996..	14	25	326	9	227	9	12	45	0	0	0	0
1997..	9	32	766	7	74	16	2	30	0	0	0	0
-----Number in thousands-----												
Year	Pacific chub mackerel						Redtail surfperch					
	Inland			Ocean 3 to 3 miles			Ocean 3 to 200 miles			Ocean 3 to 200 miles		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
1993..	397	13	2,678	5	1,576	7	1	46	68	17	0	0
1994..	567	19	3,522	6	1,225	8	2	32	88	18	0	0
1995..	477	13	3,000	7	1,669	9	13	22	78	16	0	0
1996..	558	9	4,026	5	1,347	7	27	35	85	27	0	0
1997..	428	11	4,931	8	363	14	1	47	40	25	0	0
-----Number in thousands-----												

Note:--Est= Estimate. PSE (%) = Proportional standard error.

1993-1995 Estimates do not include Washington State data as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) AND PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND PRIMARY FISHING AREA, 1993-1997 FOR THE PACIFIC COAST

Year	Striped surfperch						White croaker					
	Inland			Ocean 3 to 200 miles			Inland			Ocean 3 to 200 miles		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
-----Number in thousands-----												
1993..	49	13	83	12	0	0	438	10	1,388	7	193	12
1994..	14	17	58	16	0	0	175	14	657	11	68	21
1995..	33	48	66	14	0	0	323	10	414	8	50	50
1996..	191	17	87	16	0	0	587	13	1,091	9	177	20
1997..	60	19	53	35	0	0	362	20	548	13	153	27
Year	White sturgeon						All fishes					
	Inland			Ocean 3 to 200 miles			Inland			Ocean 3 to 200 miles		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
-----Number in thousands-----												
1993..	21	17	1	58	0	0	5,214	4	20,347	3	5,361	3
1994..	5	30	0	0	0	0	3,492	5	18,283	3	5,394	3
1995..	47	19	0	0	0	0	4,965	4	17,841	3	4,803	6
1996..	22	14	0	0	0	0	11,672	10	17,767	4	4,334	3
1997..	26	17	0	0	0	0	9,586	8	17,273	3	1,962	7

Note:--Est= Estimate. PSE (%) = Proportional standard error.

1993-1995 Estimates do not include Washington state data as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND PRIMARY FISHING AREA, 1993-1997 FOR THE PACIFIC COAST

Year	Barred sandbass						Barred surfperch					
	Inland			Ocean 3 to 200 miles			Inland			Ocean 3 to 200 miles		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
-----Thousands of pounds-----												
1993..	143	14	537	9	368	9	5	26	310	13	0	0
1994..	37	29	858	8	138	12	2	59	165	14	0	100
1995..	52	21	820	10	595	12	7	37	347	12	0	0
1996..	50	18	810	8	446	11	12	38	301	15	0	0
1997..	47	23	698	13	46	23	4	42	227	15	0	0
Year	Black rockfish						Blue rockfish					
	Inland			Ocean 3 to 200 miles			Inland			Ocean 3 to 200 miles		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
-----Thousands of pounds-----												
1993..	73	16	1,390	8	158	16	35	26	1,209	8	65	13
1994..	30	20	1,095	8	25	46	0	66	475	8	28	26
1995..	26	21	1,027	7	68	21	5	53	376	9	14	24
1996..	128	19	937	8	113	14	7	30	478	9	122	20
1997..	96	30	1,003	10	74	28	11	43	483	12	157	35

Note:--Est= Estimate. PSE (%) = Proportional standard error.

1993-1995 Estimates do not include Washington state data as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND PRIMARY FISHING AREA, 1993-1997 FOR THE PACIFIC COAST

Year	Bocaccio						Cabezon					
	Inland			Ocean to 3 miles			Inland			Ocean to 3 miles		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
1993. .	4	61	25	20	242	15	26	17	226	9	11	32
1994. .	0	0	57	31	367	19	5	33	160	10	6	26
1995. .	0	0	9	43	59	23	3	38	180	13	4	55
1996. .	1	100	60	21	159	21	49	18	200	11	6	22
1997. .	0	0	42	31	74	34	21	29	168	14	6	40
	-----Thousands of pounds-----											
Year	California halibut						Canary rockfish					
	Inland			Ocean to 3 miles			Inland			Ocean to 3 miles		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
1993. .	146	16	397	16	52	23	7	31	189	9	54	16
1994. .	264	14	420	14	106	25	0	0	162	9	22	16
1995. .	1,384	12	930	12	35	29	0	100	180	12	85	11
1996. .	621	12	457	13	81	26	2	48	98	11	74	14
1997. .	424	14	445	15	7	71	1	63	111	12	65	32
	-----Thousands of pounds-----											
Year	Chilepepper rockfish						Kelp bass					
	Inland			Ocean to 3 miles			Inland			Ocean to 3 miles		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
1993. .	0	0	7	34	29	50	42	24	1,119	8	273	9
1994. .	0	0	0	0	50	20	10	32	1,049	8	335	11
1995. .	0	0	4	59	19	29	7	40	963	8	160	19
1996. .	0	0	4	61	67	21	11	39	721	7	87	13
1997. .	0	0	2	38	1	9	7	44	743	10	17	32
	-----Thousands of pounds-----											
Year	Kelp greenling						Lingcod					
	Inland			Ocean to 3 miles			Inland			Ocean to 3 miles		
	Est	PSE (%)		Est	PSE (%)		Est	PSE (%)		Est	PSE (%)	
1993. .	55	14	138	10	2	38	88	15	1,333	7	184	17
1994. .	19	22	76	10	0	42	14	22	828	9	64	18
1995. .	18	15	66	12	1	54	23	25	752	10	81	18
1996. .	131	12	72	11	3	33	157	19	779	9	191	12
1997. .	113	151	49	12	3	34	119	21	613	10	147	36
	-----Thousands of pounds-----											

Note:--Est= Estimate. PSE (%) = Proportional standard error.

1993-1995 Estimates do not include Washington state data as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND PRIMARY FISHING AREA, 1993-1997 FOR THE PACIFIC COAST

Year	Pacific barracuda						Pacific cod					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
1993. .	25	35	901	13	762	11	0	0	0	0	0	0
1994. .	11	43	989	10	1,016	13	0	0	1	72	0	0
1995. .	7	63	2,123	9	361	16	0	0	0	0	0	0
1996. .	5	46	529	11	492	13	16	45	0	0	0	0
1997. .	5	70	1,453	9	242	19	2	0	0	0	0	0
-----Thousands of pounds-----												
Year	Pacific chub mackerel						Retail surfperch					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
1993. .	148	24	761	7	465	13	1	47	57	19	0	0
1994. .	179	20	1,570	10	475	14	2	33	69	19	0	0
1995. .	155	18	1,101	9	907	15	16	24	47	18	0	0
1996. .	148	13	1,078	6	414	12	27	38	75	28	0	0
1997. .	124	17	1,894	22	109	27	1	49	35	28	0	0
-----Thousands of pounds-----												
Year	Striped surfperch						White croaker					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
1993. .	42	14	88	13	0	0	128	13	277	9	20	23
1994. .	12	19	49	19	0	0	32	32	129	17	13	79
1995. .	35	54	64	16	0	0	128	14	160	12	122	66
1996. .	163	19	96	17	0	0	234	14	336	14	44	37
1997. .	50	19	54	30	0	0	191	30	133	23	5	72
-----Thousands of pounds-----												
Year	White sturgeon						All fishes					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
1993. .	205	24	2	100	0	0	2,731	5	13,027	2	5,177	4
1994. .	44	36	0	0	0	0	1,419	6	11,596	2	4,909	4
1995. .	764	21	0	0	0	0	4,632	6	14,071	3	5,610	6
1996. .	340	16	0	0	0	0	8,172	5	10,493	3	4,560	4
1997. .	549	15	0	0	0	0	7,057	4	16,064	5	2,885	8

Note:--Est= Estimate. PSE (%) = Proportional standard error.

1993-1995 Estimates do not include Washington state data as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

WORLD COMMERCIAL CATCH BY LEADING COUNTRIES, 1992-1996



U.S. AND WORLD COMMERCIAL FISH CATCHES, 1958-96

Year	U.S. commercial catch and exvessel value			World commercial catch				
	Published by U.S. (excludes weight of mollusk shells)	Published by FAO (1)	Exvessel value	Fresh- water	Marine			Grand total
					Peruvian anchovy	Other (2)	Total	
	<u>-Million metric tons-</u>		<u>Billion</u>	<u>- - - - -Million metric tons- - - - -</u>				
	<u>Live weight</u>		<u>dollars</u>	<u>Live weight</u>				
1958...	2.2	2.7	0.4	4.5	0.8	28.0	28.8	33.3
1959...	2.3	2.9	0.4	5.1	2.0	29.8	31.8	36.9
1960...	2.2	2.8	0.4	5.6	3.5	31.1	34.6	40.2
1961...	2.4	2.9	0.4	5.7	5.3	32.6	37.9	43.6
1962...	2.4	3.0	0.4	5.8	7.1	31.9	39.0	44.8
1963...	2.2	2.8	0.4	5.9	7.2	33.5	40.7	46.6
1964...	2.1	2.6	0.4	6.2	9.8	35.9	45.7	51.9
1965...	2.2	2.7	0.4	7.0	7.7	38.5	46.2	53.2
1966...	1.9	2.5	0.5	7.3	9.6	40.4	50.0	57.3
1967...	1.8	2.4	0.4	7.2	10.5	42.7	53.2	60.4
1968...	1.9	2.5	0.5	7.4	11.3	45.2	56.5	63.9
1969...	1.9	2.5	0.5	7.6	9.7	47.1	56.8	64.4
1970...	2.2	2.8	0.6	8.4	13.1	44.1	57.2	65.6
1971...	2.3	2.9	0.7	9.0	11.2	45.9	57.1	66.1
1972...	2.2	2.8	0.7	5.7	4.8	51.5	56.3	62.0
1973...	2.2	2.8	0.9	5.8	1.7	55.2	56.9	62.7
1974...	2.3	2.8	0.9	5.8	4.0	56.0	60.0	65.8
1975...	2.2	2.8	1.0	6.0	3.3	56.4	59.7	65.7
1976...	2.4	3.0	1.3	5.7	4.3	59.1	63.4	69.1
1977...	2.4	3.0	1.5	5.8	0.8	61.6	62.4	68.2
1978...	2.7	3.4	1.9	5.7	1.4	63.1	64.5	70.2
1979...	2.8	3.5	2.2	5.9	1.4	63.6	65.0	70.9
1980...	2.9	3.6	2.2	6.2	0.8	65.1	65.9	72.1
1981...	2.7	3.8	2.4	6.6	1.6	66.4	68.0	74.6
1982...	2.9	4.0	2.4	6.8	1.8	68.2	70.0	76.8
1983...	2.9	4.3	2.4	7.5	0.1	69.9	70.0	77.5
1984...	2.9	5.0	2.3	8.0	0.1	75.8	75.9	83.9
1985...	2.8	4.9	2.3	8.7	1.0	76.7	77.7	86.4
1986...	2.7	5.2	2.8	9.7	4.9	78.2	83.1	92.8
1987...	3.1	6.0	3.1	10.4	2.1	81.9	84.0	94.4
1988...	3.3	5.9	3.5	11.1	3.6	84.4	88.0	99.1
1989...	3.8	5.8	3.2	11.4	5.4	83.3	88.7	100.1
1990...	4.3	5.9	3.5	12.2	3.8	83.0	86.8	99.0
1991...	4.3	5.5	3.3	12.3	4.0	82.6	86.6	98.9
1992...	4.4	5.6	3.7	13.1	6.2	82.4	88.6	101.7
1993...	4.7	5.9	3.5	14.6	8.5	82.1	90.6	105.2
1994...	4.7	5.9	3.8	16.2	12.5	84.8	97.3	113.5
1995...	4.4	5.6	3.7	18.2	8.6	90.5	99.1	117.3
1996...	4.3	5.4	3.5	19.9	8.9	92.2	101.1	121.0

(1) Includes U.S.-flag vessel landings at foreign ports, transfer of catches onto foreign vessels within the U.S. EEZ (joint ventures), and the weight of mollusk shells. (2) Includes diadromous fishes including salmon and other anadromous fishes and catadromous fishes such as eels.

Note:--There are 2,204.6 pounds in a metric ton. Prior to 1970, the world commercial catch of whales and seals is excluded. For the years 1970-1996, data for marine mammals and aquatic plants are excluded.

Source:--Fishery Statistics of the United States; Fisheries of the United States; Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, Rome; various volumes.

**WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY COUNTRIES,
1992-96 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)**

Country	1992 (1)	1993 (1)	1994 (1)	1995 (1)	1996
-Thousand metric tons-					
Live-weight					
China.....	16,579	19,708	23,834	28,418	31,937
Peru.....	7,508	9,008	12,005	8,943	9,522
Chile.....	6,502	6,035	7,839	7,591	6,911
Japan.....	8,502	8,081	7,398	6,787	6,793
United States (2)...	5,604	5,940	5,926	5,638	5,394
India.....	4,233	4,546	4,738	4,906	5,260
Russian Federation..	5,611	4,461	3,781	4,374	4,729
Indonesia.....	3,439	3,685	3,917	4,145	4,402
Thailand.....	3,246	3,385	3,522	3,756	3,648
Norway.....	2,561	2,588	2,551	2,803	2,963
South Korea.....	2,696	2,649	2,701	2,688	2,772
Philippines.....	2,272	2,226	2,233	2,221	2,133
Iceland.....	1,577	1,718	1,560	1,616	2,064
North Korea (3)....	1,780	1,782	1,802	1,850	1,800
Denmark.....	1,997	1,657	1,916	2,044	1,723
Mexico.....	1,248	1,201	1,267	1,359	1,499
Spain (3).....	1,255	1,220	1,310	1,370	1,289
Bangladesh.....	967	1,047	1,091	1,173	1,264
Malaysia.....	1,105	1,155	1,182	1,245	1,240
Argentina.....	705	932	950	1,149	1,239
Taiwan.....	1,314	1,411	1,249	1,288	1,230
Viet Nam (3).....	1,080	1,100	1,150	1,100	1,000
United Kingdom.....	870	929	964	1,004	978
Canada.....	1,337	1,183	1,076	933	971
Burma.....	800	837	924	832	873
Brazil (3).....	790	780	820	805	850
France.....	821	830	854	882	828
Ecuador.....	361	328	345	612	794
Morocco.....	548	623	752	846	640
Italy.....	558	564	576	614	560
Pakistan.....	553	622	552	542	555
Turkey.....	454	559	603	652	555
New Zealand.....	503	471	492	613	493
Venezuela.....	334	397	441	505	490
Ghana.....	427	376	336	354	477
Netherlands.....	487	533	529	522	463
Ukraine.....	526	371	311	414	450
South Africa.....	696	565	525	578	440
Senegal.....	370	382	350	359	436
Iran.....	334	318	332	368	382
All others.....	9,178	9,003	8,754	9,379	8,963
Total.....	101,728	105,206	113,458	117,278	121,010

(1) Revised.

(2) Includes the weight of clam, oyster, scallop, and other mollusk shells. This weight is not included in U.S. landings statistics shown elsewhere.

(3) Data estimated by FAO.

Source:--Food and Agriculture Organization of the United Nations (FAO)

**WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY CONTINENT,
1992-96 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)**

Continent	1992 (1)	1993 (1)	1994 (1)	1995 (1)	1996
	- - - - - <u>Thousand metric tons</u> - - - - -				
	<u>Live-weight</u>				
North America.....	8,756	8,871	8,835	8,528	8,423
South America.....	16,574	17,832	22,745	20,018	20,216
Europe.....	12,739	12,598	12,835	13,598	13,459
Former USSR.....	6,846	5,411	4,529	5,216	5,570
Asia.....	50,468	54,258	58,300	63,189	67,034
Africa.....	5,294	5,200	5,181	5,585	5,271
Oceania.....	917	888	894	1,028	880
Other.....	134	148	139	116	157
Total.....	101,728	105,206	113,458	117,278	121,010

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO)

**WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY MAJOR FISHING
AREAS, 1992-96 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)**

Area	1992 (1)	1993 (1)	1994 (1)	1995 (1)	1996
	- - - - - <u>Thousand metric tons</u> - - - - -				
	<u>Live-weight</u>				
Marine Areas:					
Pacific Ocean.....	54,378	56,393	63,057	63,201	64,903
Atlantic Ocean.....	24,343	23,690	23,648	24,827	24,706
Indian Ocean.....	7,363	7,869	7,737	8,010	8,242
Total.....	86,084	87,952	94,442	96,038	97,851
Inland waters:					
North America.....	584	579	573	540	561
South America.....	357	375	403	425	402
Europe.....	504	497	509	527	513
Former USSR.....	667	544	460	416	416
Asia.....	11,668	13,372	15,245	17,335	19,326
Africa.....	1,839	1,864	1,805	1,974	1,919
Oceania.....	25	23	21	23	22
Total.....	15,644	17,254	19,016	21,240	23,159
Grand total.....	101,728	105,206	113,458	117,278	121,010

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO)

**WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY SPECIES
GROUPS, 1992-96, (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)**

Species group	1992(1)	1993(1)	1994(1)	1996(1)	1996
----- <u>Thousand metric tons</u> -----					
<u>Live weight</u>					
Carp, barbels, cyprinids.....	7,081	8,185	9,530	10,970	12,340
Cods, hakes, haddock.....	10,435	9,915	9,641	10,606	10,712
Flatfish.....	1,170	1,105	992	925	940
Herrings, sardines, anchovies...	21,196	21,895	25,836	21,975	22,323
Jacks, mullets, sauries.....	10,541	10,129	10,061	11,050	11,329
Mackerel, snoeks, cutlassfishes.	3,452	4,008	4,514	4,688	5,137
Redfish, basses, congers.....	6,060	5,819	6,445	7,031	6,827
River eels.....	209	203	206	202	229
Salmons, trouts, smelts.....	1,467	1,700	1,803	2,089	2,102
Shads.....	694	656	634	685	723
Sharks, rays, chimaeras.....	728	741	752	757	759
Sturgeons, paddlefish.....	14	9	8	7	6
Tilapias.....	1,064	1,084	1,129	1,251	1,319
Tunas, bonitos, billfishes.....	4,512	4,556	4,623	4,708	4,587
Other fishes.....	16,409	17,351	17,490	18,277	19,215
Crabs.....	1,062	1,068	1,259	1,267	1,339
Krill.....	305	89	84	119	101
Lobsters.....	214	211	222	228	223
Shrimp.....	2,970	2,924	3,128	3,217	3,385
Other crustaceans.....	909	1,159	1,299	1,515	1,681
Abalones, winkles, conchs.....	85	94	100	99	107
Clams, cockles, arkshells.....	2,125	2,473	2,635	2,729	2,703
Mussels.....	1,394	1,368	1,321	1,416	1,382
Oysters.....	1,711	2,032	2,821	3,248	3,224
Scallops.....	1,056	1,459	1,634	1,653	1,739
Squids, cuttlefishes, octopus...	2,737	2,715	2,773	2,861	3,038
Other mollusks.....	1,511	1,833	2,012	3,075	2,813
Sea urchins, other echinoderms..	102	105	117	127	118
Miscellaneous.....	515	320	389	503	609
Total.....	101,728	105,206	113,458	117,278	121,010

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO)

**DISPOSITION OF WORLD COMMERCIAL CATCH, 1992-96
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)**

Item	1992(1)	1993(1)	1994(1)	1995(1)	1996
----- <u>Percent of Total</u> -----					
Marketed fresh.....	25.7	25.3	25.8	29.5	32.2
Frozen.....	24.3	24.8	23.6	23.3	22.8
Canned.....	12.3	12.2	11.1	10.9	10.3
Cured.....	10.0	9.8	9.8	10.0	9.6
Reduced to meal and oil (2).....	26.0	26.1	27.9	24.7	23.5
Miscellaneous purposes.....	1.7	1.8	1.8	1.6	1.6
Total.....	100.0	100.0	100.0	100.0	100.0

(1) Revised.

(2) Only whole fish destined for the manufacture of oils and meals are included. Raw material for reduction derived from fish primarily destined for marketing fresh, frozen, canned, cured, and miscellaneous purposes is excluded; such waste quantities are included under the other disposition channels.

Source:--Food and Agriculture Organization of the United Nations (FAO)

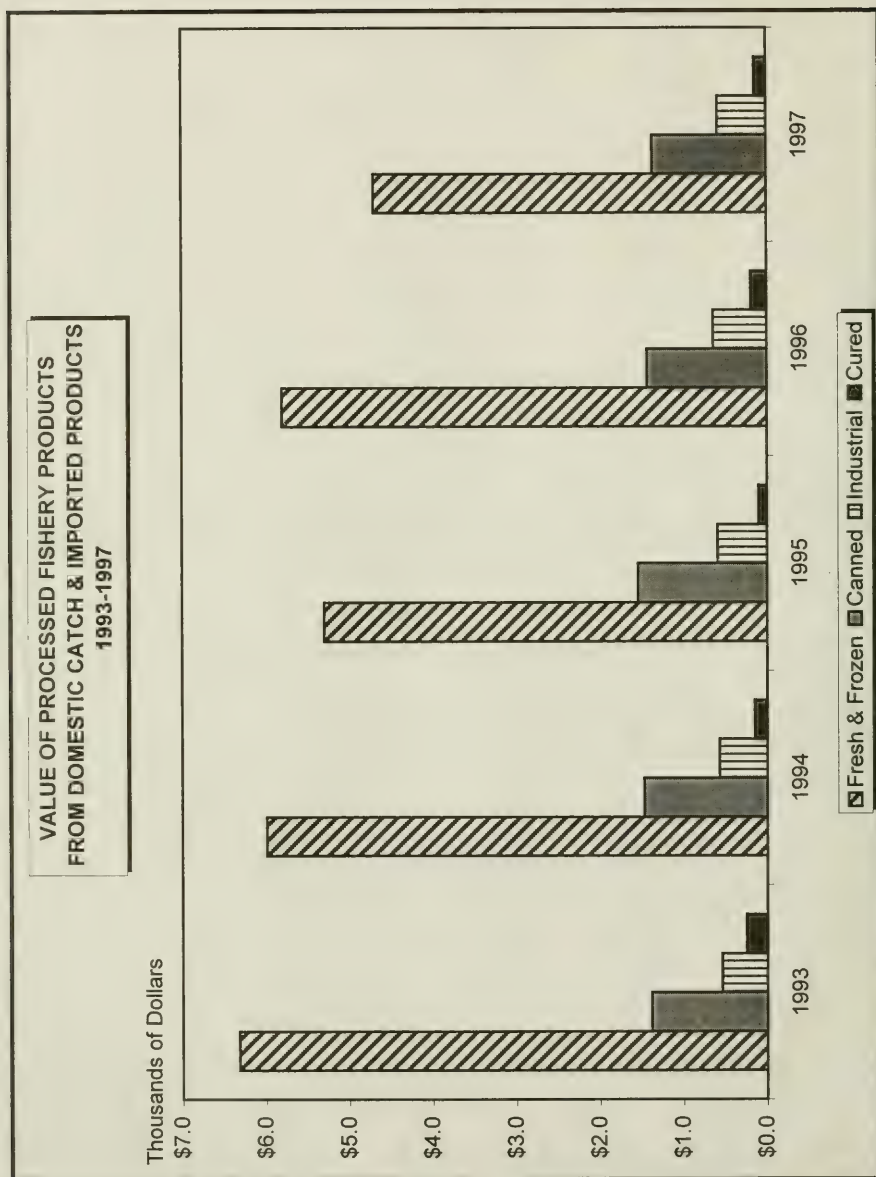
**WORLD IMPORTS AND EXPORTS OF SEVEN FISHERY COMMODITY GROUPS,
BY LEADING COUNTRIES, 1992-96**

Country	1992 (1)	1993 (1)	1994 (1)	1995 (1)	1996
	-----Thousand U.S. dollars-----				
IMPORTS:					
Japan.....	12,831,760	14,187,149	16,140,465	17,853,481	17,023,945
United States.....	6,024,064	6,290,233	7,043,431	7,141,428	7,080,411
France.....	2,934,588	2,556,151	2,796,719	3,221,298	3,194,133
Spain.....	2,898,232	2,629,799	2,638,737	3,105,684	3,134,893
Italy.....	2,643,440	2,131,181	2,257,462	2,281,316	2,590,985
Germany.....	2,190,892	1,884,301	2,316,449	2,478,817	254,957
United Kingdom.....	1,906,861	1,628,852	1,880,350	1,910,091	2,065,025
Hong Kong.....	1,398,181	1,376,856	1,647,106	1,831,511	1,928,143
Denmark.....	1,197,370	1,094,253	1,415,239	1,573,732	1,618,669
China.....	680,844	575,929	855,706	941,293	1,184,170
Canada.....	686,876	821,404	913,404	1,034,070	1,158,864
Netherlands.....	888,606	791,608	1,017,635	1,191,857	1,141,647
South Korea.....	498,036	537,346	718,451	824,817	1,057,402
Belgium.....	828,086	730,459	920,918	1,035,818	966,333
Thailand.....	942,090	830,480	815,616	825,606	818,353
Portugal.....	734,928	627,713	669,888	763,245	782,858
Singapore.....	543,769	566,502	619,595	659,681	641,782
Taiwan.....	491,029	544,243	560,799	589,723	612,945
Sweden.....	467,773	371,756	448,661	546,076	587,169
Other Countries.....	4,467,246	4,390,343	5,394,255	6,235,750	9,021,415
Total.....	45,254,671	44,566,558	51,070,886	56,045,294	56,864,099
EXPORTS:					
Thailand.....	3,071,780	3,404,268	4,190,036	4,449,457	4,117,865
Norway.....	2,436,832	2,302,346	2,735,485	3,122,662	3,415,696
United States.....	3,582,545	3,179,474	3,229,585	3,383,589	3,147,858
China.....	1,559,977	1,542,429	2,320,125	2,835,021	2,856,986
Denmark.....	2,319,917	2,150,665	2,359,034	2,459,629	2,698,976
Taiwan.....	1,802,097	2,369,422	2,213,259	2,328,105	2,362,200
Canada.....	2,085,495	2,055,438	2,182,078	2,314,413	2,291,261
Chile.....	1,252,364	1,124,679	1,303,974	1,704,260	1,697,258
Russian Federation..	826,299	1,471,446	1,720,459	1,635,145	1,686,162
Indonesia.....	1,178,552	1,419,492	1,583,416	1,666,752	1,678,222
South Korea.....	1,359,050	1,335,238	1,411,052	1,564,878	1,512,992
Netherlands.....	1,405,567	1,296,340	1,435,824	1,447,239	1,470,046
Spain.....	712,729	813,750	1,021,015	1,190,676	1,461,486
Iceland.....	1,252,713	1,137,638	1,264,615	1,342,552	1,425,837
United Kingdom.....	1,146,138	1,036,674	1,180,158	1,195,477	1,307,859
Peru.....	517,119	685,004	979,502	869,727	1,120,391
Germany.....	692,954	652,956	790,357	899,248	1,055,756
France.....	955,379	857,752	909,734	993,364	1,003,460
India.....	673,369	835,980	1,125,440	1,104,641	978,352
Other Countries.....	11,383,320	11,728,959	13,659,341	15,597,714	15,683,255
Total.....	40,214,196	41,399,950	47,614,489	52,104,549	52,971,918

(1) Revised. Note:--Data on imports and exports cover the international trade of 176 countries or areas. The total value of imports, probably because charges for insurance, freight, and similar expenses were included in the import value but not in the export value. The seven fishery commodity groups covered by this table are:

1.Fish, fresh, chilled or frozen; 2.Fish, dried, salted, or smoked; 3.Crustaceans and mollusks, fresh, dried salted, etc.; 4.Fish products and preparations, whether or not in airtight containers; 5.Crustacean and mollusk products and preparations, whether or not in airtight containers; 6.Oils and fats, crude or refined of aquatic animal origin; and 7.Meals, solubles and similar animal foodstuffs of aquatic animal origin.

Source:--Food and Agriculture Organization of the United Nations (FAO)



VALUE OF PROCESSED FISHERY PRODUCTS, 1996 AND 1997 (Processed from domestic catch and imported products)

Item	1996		1997 (1)	
	<u>Thousand dollars</u>	<u>Percent of total</u>	<u>Thousand dollars</u>	<u>Percent of total</u>
Edible:				
Fresh and frozen.....	5,767,519	72	4,743,917	69
Canned.....	1,428,937	18	1,361,437	20
Cured.....	196,441	2	142,843	2
Total edible.....	7,392,897	92	6,248,197	92
Industrial:				
Bait and animal food (canned).....	370,945	5	231,756	3
Meal, oil, and solubles.....	187,968	2	238,760	3
Other.....	85,583	1	108,590	2
Total industrial.....	644,496	8	579,106	8
Grand total.....	8,037,393	100	6,827,303	100

(1) Preliminary. May not add due to rounding.

Note:--Value is based on selling price at the plant.



FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP

U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1988-97

Year	Fish sticks		Fish portions		Breaded shrimp	
	<u>Thousand pounds</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Thousand dollars</u>
1988.....	80,148	113,868	301,450	439,701	99,471	292,899
1989.....	89,112	116,440	279,864	400,351	120,927	404,535
1990.....	65,209	74,866	242,776	352,589	110,760	353,265
1991.....	63,286	77,877	204,697	313,400	116,335	335,880
1992.....	58,295	56,020	194,307	296,214	122,266	350,497
1993.....	67,959	67,975	206,165	313,195	111,489	316,722
1994.....	58,789	51,429	196,289	268,353	113,461	304,931
1995.....	74,066	73,478	251,217	356,518	100,522	299,355
1996.....	65,244	55,802	213,962	306,501	108,486	341,770
1997.....	69,149	64,281	195,554	285,348	116,961	333,294

FISH FILLETS AND STEAKS

PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 1996 AND 1997

Species	1996 (1)		1997	
	<u>Thousand pounds</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Thousand dollars</u>
Fillets:				
Amberjack.....	313	1,059	480	1,894
Anglerfish.....	6,993	15,426	7,042	17,660
Bluefish.....	108	246	132	282
Cod.....	67,203	158,413	78,793	178,517
Cusk.....	222	717	117	350
Dolphin.....	2,812	11,903	4,305	17,090
Drum.....	76	302	62	264
Flounders.....	29,178	79,541	25,507	75,462
Grouper.....	2,276	12,687	2,789	17,202
Haddock.....	3,682	13,853	6,772	24,058
Hake.....	33,960	36,587	18,783	16,878
Halibut.....	3,746	20,561	4,295	20,731
Lingcod.....	972	2,247	710	1,661
Marlin.....	564	1,900	522	1,634
Ocean perch:				
Atlantic.....	258	706	557	1,741
Pacific.....	1,737	4,297	1,418	2,786
Ocean pout.....	8	12	1	2
Pollock:				
Atlantic.....	1,970	5,004	1,071	2,336
Alaska.....	136,374	157,814	112,027	128,594
Rockfishes.....	20,218	41,913	14,876	30,008
Sablefish.....	1,600	3,603	1,206	2,741
Salmon.....	18,612	65,719	18,653	68,281
Sea bass.....	717	4,248	704	4,138
Sea trout.....	276	1,136	209	890
Shark.....	2,394	5,992	1,854	5,432
Snapper.....	1,875	11,515	2,223	11,364
Spanish mackerel.....	121	223	102	204
Swordfish.....	6,081	34,196	8,985	49,706
Tilapia.....	353	946	1,179	3,457
Tuna.....	9,297	59,881	10,187	64,169
Wahoo.....	244	1,196	220	1,021
Whitefish.....	1,335	3,755	965	2,889
Wolffish.....	66	209	58	174
Unclassified.....	16,744	48,826	18,995	61,241
Total.....	372,385	806,633	345,799	814,857
Steaks:				
Dolphin.....	274	1,084	272	1,077
Halibut.....	6,282	27,207	5,849	23,332
King mackerel.....	7	22	5	12
Salmon.....	3,380	9,900	1,584	3,313
Shark.....	12	27	100	212
Swordfish.....	2,933	12,725	3,187	14,408
Tuna.....	4,706	14,669	5,459	15,787
Unclassified.....	33,330	31,753	35,270	35,894
Total.....	50,924	97,387	51,726	94,035
Grand total.....	423,309	904,020	397,525	908,892

(1) Revised.

Note: Some fillet production was further processed into frozen blocks.

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1996 AND 1997

Species	Pounds per case	1996			1997		
		Standard cases	Thousand pound	Thousand dollars	Standard cases	Thousand pound	Thousand dollars
For human consumption:							
Fish:							
Herring.....	23.4	266,325	6,232	10,826	250,855	5,870	11,172
Salmon:							
Chinook.....	44.25	2,599	115	628	678	30	174
Chum.....	44.25	337,627	14,940	19,572	175,864	7,782	7,039
Pink.....	44.25	2,947,797	130,440	158,969	2,604,678	115,257	140,999
Coho.....	44.25	61,876	2,738	5,594	59,367	2,627	6,809
Sockeye.....	44.25	1,105,763	48,930	99,582	690,169	30,540	97,790
Total salmon.....		4,455,661	197,163	284,345	3,530,757	162,106	252,811
Specialties.....	48	10,521	505	4,272	8,750	420	4,105
Sardines, Maine.....	23.4	755,214	17,672	29,857	682,735	15,976	29,027
Tuna: (2)							
Albacore:							
Solid.....	18	7,798,889	140,380	310,999	8,647,722	155,659	336,415
Chunk.....	18	1,403,000	25,254	51,691	1,646,333	29,634	58,177
Total.....		9,201,889	165,634	362,690	10,294,056	185,293	394,592
Lightmeat:							
Solid.....	18	331,722	5,971	8,938	408,833	7,359	11,233
Chunk.....	18	28,011,722	504,211	585,296	24,132,222	434,380	512,905
Total.....		28,343,444	510,182	594,234	24,541,056	441,739	524,138
Total tuna.....		37,545,333	675,816	956,924	34,835,111	627,032	918,730
Specialties.....	48	146	7	80	438	21	210
Other.....	48	324,063	15,555	12,169	373,896	17,947	18,694
Total fish.....	--	43,357,262	912,950	1,298,473	39,682,541	817,632	1,234,749
Shellfish:							
Clam and clam products: (3)							
Whole and minced.	15	3,057,133	45,857	61,987	2,911,800	43,677	62,698
Chowder and juice	30	2,384,600	71,538	46,148	2,330,433	69,913	43,175
Specialties.....	48	249,042	11,954	9,100	235,125	11,286	8,703
Crabs, natural.....	20	4,769	93	380	4,256	83	446
Lobster meat and specialties.....	48	7,104	341	384	7,417	356	439
Oyster, specialties	48	167	8	131	604	29	111
Shrimp, Natural (4) ..	6.75	121,333	819	6,074	173,037	1,168	4,557
Other.....	48	194,771	9,349	6,260	179,396	8,611	6,559
Total shellfish.....	--	6,018,919	139,959	130,464	5,842,068	135,123	126,688
Total for human consumption.....	--	49,376,181	1,052,909	1,428,937	45,524,610	952,755	1,361,437
For bait and animal food.....	48	17,168,625	824,094	370,945	12,756,667	612,320	231,756
Grand total.....	--	66,544,806	1,877,003	1,799,882	58,281,276	1,565,075	1,593,193

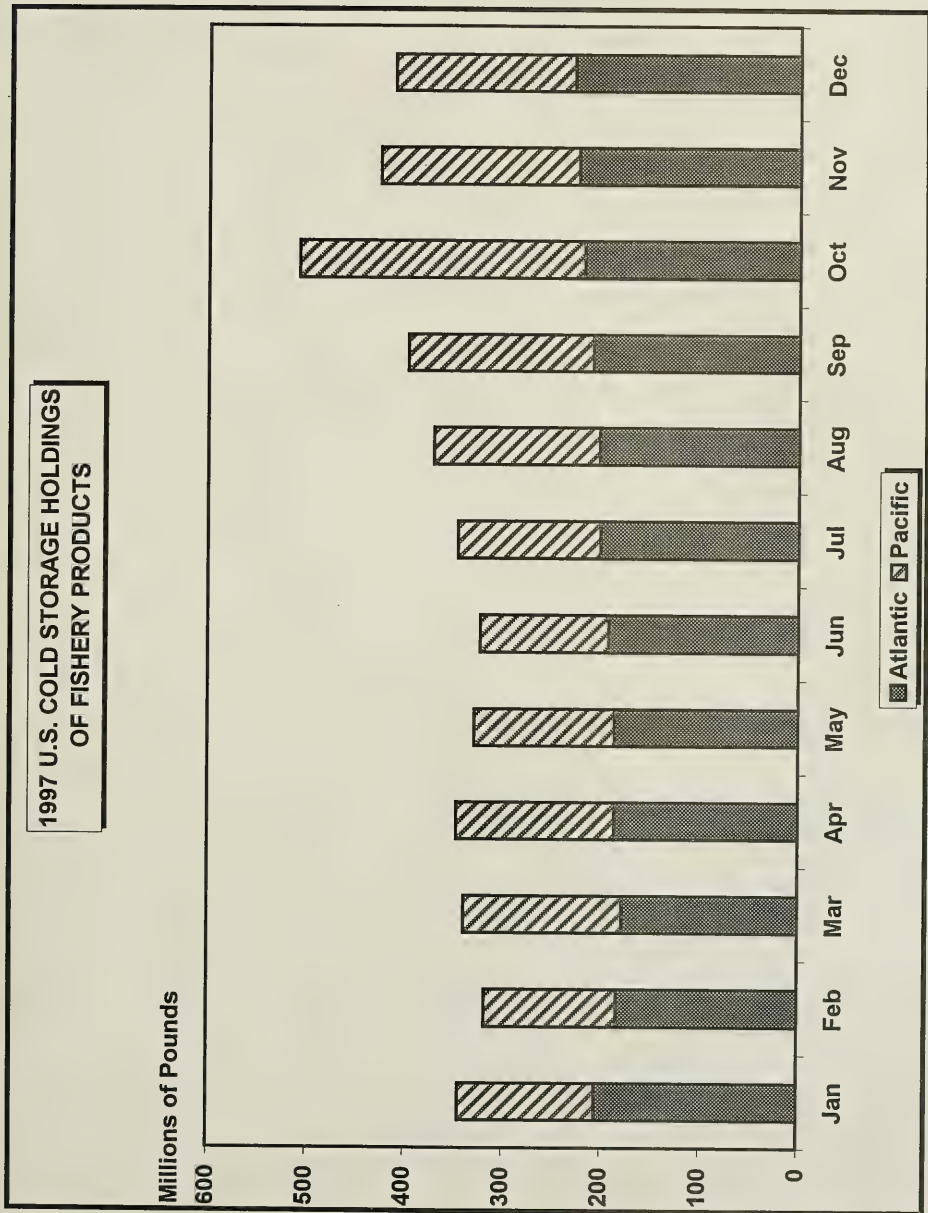
(1) Revised.

(2) Flakes included with chunk.

(3) "Cut out" or "drained" weight of can contents are given for whole or minced clams, and net contents for other clam products.

(4) Drained weight.

#



FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1997

Species	January	February	March	April	May	June
Fish	Thousand pounds					
Saltwater:						
Blocks and slabs:						
Cod	3,869	1,997	1,545	3,359	5,101	6,323
Flounder and sole	940	803	772	747	1,081	1,042
Haddock	1,094	653	624	2,592	2,704	2,265
Ocean perch	174	111	96	1,027	40	65
Pollock:						
Alaska (walleye)	21,380	17,656	20,493	18,697	19,946	24,623
Atlantic or other.	9,515	8,643	10,082	9,712	9,650	11,167
Whiting:						
Silver (Atl) hake.	578	819	613	1,026	1,130	1,230
Pacific hake	356	172	478	298	248	244
Minced.	10,237	9,270	9,164	8,430	10,103	10,749
Unclassified (3).	2,816	1,266	1,440	1,337	1,212	1,220
Total, blocks and slabs	50,959	41,390	45,307	47,225	51,215	58,928
Fillets and steaks:						
Cod	13,710	14,753	17,963	23,938	27,648	26,640
Flounder and sole	3,701	3,916	2,249	4,653	3,935	3,408
Haddock	3,162	2,775	2,633	3,343	3,118	4,019
Halibut	374	359	352	352	431	772
Ocean perch	4,374	3,185	2,259	2,185	1,713	1,360
Pollock:						
Alaska (walleye)	6,117	11,491	14,935	12,878	11,953	10,321
Atlantic or other.	5,406	4,327	4,251	4,743	4,097	4,868
Rockfish.	395	356	305	138	162	323
Salmon.	2,691	2,492	2,087	2,218	2,172	2,008
Whiting:						
Silver (Atl) hake.	3,890	3,717	3,768	2,059	2,628	4,113
Pacific hake	1,308	1,106	826	668	544	899
Unclassified.	19,323	17,917	19,510	20,104	21,053	19,108
Total, fillets and steaks	64,451	66,394	71,138	77,279	79,454	77,839
Round, dressed, etc.:						
Halibut (exc. California)	4,194	3,746	3,030	2,874	4,712	8,243
Sablefish	134	98	124	292	568	678
Salmon:						
Chinook or king.	1,866	1,565	1,444	1,042	1,111	1,182
Silver or coho	3,559	2,590	1,705	1,200	764	562
Chum or fall	14,345	10,180	6,190	3,406	1,577	1,158
Pink	1,944	1,259	1,317	1,020	211	219
Sockeye.	4,499	4,872	3,830	2,109	1,461	1,632
Unclassified	2,154	1,731	1,880	1,886	1,459	2,633
Total, salmon	28,367	22,197	16,366	10,663	6,583	7,386
Whiting:						
Silver (Atl) hake	246	175	195	98	62	109
Pacific hake.	340	100	348	525	601	699
Unclassified (exc bait)	47,148	35,254	40,108	40,484	32,075	26,688
Total, round, dressed, etc.	80,429	61,570	60,171	54,936	44,601	43,803

See footnotes at end of table.

(Continued on next page)

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1997 - Continued

Species	January	February	March	April	May	June
Fish	-----Thousand pounds-----					
Fish sticks and portions (2):	23,087	19,810	18,960	21,968	24,391	25,435
Analog products	4,824	3,925	3,633	4,108	3,680	4,089
Surimi: Pollock	12,197	15,347	18,194	16,786	12,557	12,782
Other	4	353	597	24	35	70
Total, saltwater	235,951	208,789	218,000	222,326	215,933	222,946
Freshwater:						
Fillets and steaks	137	95	68	72	60	643
Catfish	12,711	12,076	11,398	11,477	10,534	10,143
Rainbow trout	939	941	1,037	1,122	1,005	1,174
Unclassified (exc bait)	894	302	385	352	271	123
Total, freshwater	14,681	13,414	12,888	13,023	11,870	12,083
Bait & animal food	12,864	13,132	10,709	14,223	14,143	13,945
Shellfish						
Clams and clam meats	2,028	5,871	5,823	7,417	8,058	8,109
Crabs:						
Dungeness	1,494	1,980	597	623	517	584
King:						
Meat	27	20	22	15	14	26
Sections	5,036	4,813	5,747	5,583	4,332	4,856
Snow:						
Meat	582	796	675	763	592	701
Sections	2,195	4,929	17,244	20,290	17,646	13,375
Unclassified	1,710	1,500	4,931	5,606	4,893	3,404
Total, crabs	11,044	14,038	29,216	32,880	27,994	22,946
Lobsters:						
Spiny (tails)	2,992	2,352	1,824	1,503	1,111	1,525
Unclassified (whole & meat) .	1,363	1,160	1,137	924	746	587
Oyster meats	799	578	908	1,218	1,259	1,288
Scallop meats	2,023	2,601	2,844	2,881	2,885	3,097
Shrimp:						
Raw, headless	10,765	12,218	11,486	10,553	8,103	6,828
Breaded	5,658	4,725	4,039	5,987	5,998	4,647
Peeled	14,895	9,683	7,893	8,864	9,103	6,320
Unclassified	12,129	8,940	8,098	8,127	7,650	7,640
Total, shrimp	43,447	35,566	31,516	33,531	30,854	25,435
Squid	12,780	17,026	19,036	13,403	10,019	7,691
Unclassified shellfish	3,035	3,181	3,004	2,977	2,798	2,918
Total, shellfish	79,511	82,373	95,308	96,734	85,724	73,596
Total, fish and shellfish	343,007	317,708	336,905	346,306	327,670	322,570
Cured fish (all categories) . .	801	700	1,152	1,339	770	514
Grand total	343,808	318,408	338,057	347,645	328,440	323,084

See footnotes at end of table.

(Continued on next page)

U.S. COLD STORAGE HOLDINGS

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1997 - Continued

Species	July	August	September	October	November	December
Fish	Thousand pounds					
Saltwater:						
Blocks and slabs:						
Cod	4,395	6,477	6,676	7,544	8,756	8,632
Flounder and sole	669	1,487	2,344	2,260	2,265	1,905
Haddock	2,063	1,418	1,074	1,604	1,395	2,083
Ocean perch	59	141	51	124	218	207
Pollock:						
Alaska (walleye)	25,422	24,113	25,369	25,839	24,677	25,246
Atlantic or other.	10,665	11,081	8,523	8,627	9,681	8,866
Whiting:						
Silver (Atl) hake.	1,081	890	577	595	855	847
Pacific hake	172	172	282	17	16	0
Minced.	12,350	10,312	12,284	11,685	9,991	9,851
Unclassified (3).	1,385	1,290	1,801	2,179	2,043	2,652
Total, blocks and slabs	58,261	57,381	58,981	60,474	59,897	60,289
Fillets and steaks:						
Cod	29,984	25,285	23,453	21,339	21,575	25,521
Flounder and sole	4,056	5,680	4,432	4,116	6,753	5,441
Haddock	5,621	1,586	3,187	2,290	1,081	3,760
Halibut	1,052	1,641	1,451	1,418	2,062	1,562
Ocean perch	1,526	1,314	1,757	1,580	1,505	2,032
Pollock:						
Alaska (walleye)	9,542	7,395	8,523	10,827	10,255	9,753
Atlantic or other.	6,474	4,392	4,417	4,124	3,796	3,157
Rockfish.	238	188	222	206	356	351
Salmon.	2,211	4,221	4,605	4,811	4,622	4,488
Whiting:						
Silver (Atl) hake.	4,589	4,329	3,079	2,440	1,978	1,704
Pacific hake	1,899	2,541	2,618	3,053	2,969	3,068
Unclassified.	21,555	21,828	21,250	26,060	24,407	22,198
Total, fillets and steaks	88,747	80,400	78,994	82,264	81,359	83,035
Round, dressed, etc.:						
Halibut (exc. California)	10,539	12,748	14,762	15,745	16,241	14,439
Sablefish	1,451	1,614	2,195	1,744	1,738	1,448
Salmon:						
Chinook or king.	3,084	2,680	4,096	4,098	3,778	3,076
Silver or coho	1,238	1,864	3,694	5,543	5,162	4,445
Chum or fall	14,785	26,418	25,919	26,743	28,872	24,698
Pink	1,100	7,578	13,180	11,196	9,580	7,654
Sockeye.	3,288	5,370	6,521	5,661	4,655	4,372
Unclassified	2,776	3,669	4,984	4,209	4,389	3,693
Total, salmon	26,271	47,579	58,394	57,450	56,436	47,938
Whiting:						
Silver (Atl) hake	91	224	279	204	133	15
Pacific hake.	973	2,339	2,063	1,089	1,042	978
Unclassified (exc bait)	26,461	35,010	39,495	40,192	42,579	35,053
Total, round, dressed, etc.	65,786	99,514	117,188	116,424	118,169	99,871

See footnotes at end of table.

(Continued on next page)

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1997 - Continued

Species	July	August	September	October	November	December
Fish	-----Thousand pounds-----					
Fish Sticks and Portions (2):	20,326	22,020	24,803	26,875	30,354	31,966
Analog products.	4,260	4,192	4,844	4,199	4,102	3,375
Surimi: Pollock	11,190	11,851	13,351	19,892	19,780	18,398
Other.	102	58	57	51	54	145
Total, Saltwater	248,672	275,416	298,218	310,179	313,715	297,079
Freshwater:						
Fillets and steaks	117	181	164	262	167	219
Catfish.	10,120	10,243	9,551	10,295	11,039	12,648
Rainbow trout.	1,602	674	645	611	1,055	1,245
Unclassified (exc bait). . . .	182	343	185	124	33	253
Total, Freshwater	12,021	11,441	10,545	11,292	12,294	14,365
Bait & Animal Food.	11,230	11,458	11,271	11,749	12,102	11,271
Shellfish						
Clams and clam meats	7,192	6,822	6,481	2,447	2,665	2,993
Crabs:						
Dungeness	930	1,060	1,225	1,318	1,297	2,643
King:						
Meat.	48	54	35	66	61	69
Sections.	5,483	4,399	4,808	8,773	8,697	8,581
Snow:						
Meat.	746	667	699	785	905	918
Sections.	10,060	7,692	6,362	5,287	5,400	2,799
Unclassified.	1,786	2,119	2,569	2,766	3,057	2,359
Total, crabs.	19,053	15,991	15,698	18,995	19,417	17,369
Lobsters:						
Spiny (tails)	2,139	3,211	3,560	4,174	4,470	4,740
Unclassified (whole & meat) .	952	1,297	1,437	1,553	1,470	1,832
Oyster meats	1,274	1,256	1,164	1,118	703	699
Scallop meats.	3,246	2,957	2,887	2,691	2,259	2,313
Shrimp:						
Raw, headless	7,037	9,408	11,336	13,244	11,055	15,199
Breaded	5,168	5,567	5,813	5,882	6,112	6,412
Peeled.	8,584	8,714	10,684	11,190	16,522	12,417
Unclassified.	8,211	7,740	8,348	11,334	12,119	13,664
Total, shrimp	29,000	31,429	36,181	41,650	45,808	47,692
Squid.	7,412	6,004	4,768	4,254	3,867	3,066
Unclassified shellfish	2,906	3,151	3,266	6,876	7,080	6,546
Total, shellfish.	73,174	72,118	75,442	83,758	87,739	87,250
Total, fish and shellfish	345,097	370,433	395,476	416,978	425,830	409,965
Cured fish (all categories). . .	1,025	712	971	90,815	742	1,051
Grand total.	346,122	371,145	396,447	507,793	426,592	411,016

(1) Unclassified may also include blocks and slabs made from species listed separately.

(2) Fish sticks and portions include all species that are either cook or uncooked.

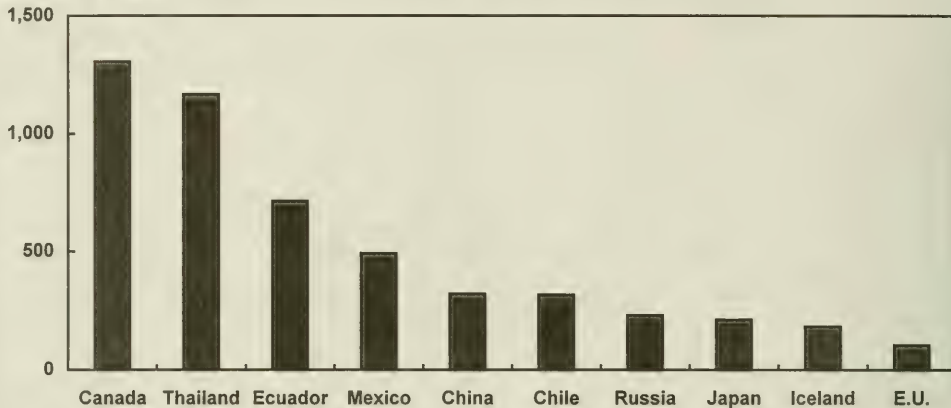
NOTE:--Data includes imported fishery products. Data for these tables were collected from public and private warehouses where fishery products are normally stored for 30 days or more.

FOREIGN TRADE

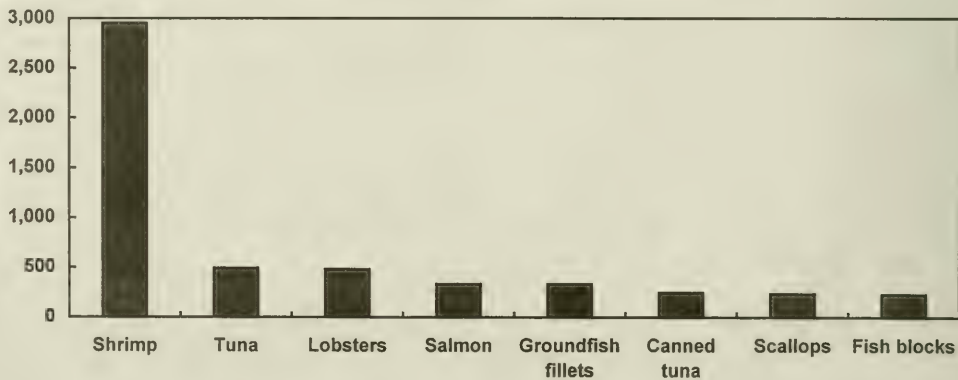
IMPORTS

**U.S. IMPORTS OF EDIBLE FISHERY PRODUCTS, 1997
FROM MAJOR MARKETS**

Millions of Dollars

**U.S. IMPORTS OF EDIBLE FISHERY PRODUCTS, 1997
BY MAJOR GROUP**

Millions of Dollars



IMPORTS

FISHERY PRODUCTS IMPORTS, BY PRINCIPAL ITEMS, 1996 AND 1997

Item	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Edible fishery products:						
Fresh and frozen:						
Whole or eviscerated:						
Freshwater.....	64,923	29,449	68,072	76,224	34,575	72,031
Flatfish.....	31,371	14,230	56,929	36,993	16,780	70,861
Groundfish.....	59,760	27,107	47,080	63,700	28,894	52,363
Salmon.....	142,258	64,528	304,612	162,803	73,847	344,427
Tuna (1).....	528,703	239,818	509,783	438,493	198,899	494,181
Other.....	228,211	103,516	274,515	253,280	114,887	330,870
Fillets and steaks:						
Freshwater.....	26,133	11,854	74,688	30,719	13,934	83,563
Flatfish.....	45,091	20,453	96,092	42,679	19,359	92,067
Groundfish.....	178,209	80,835	310,417	176,125	79,890	334,206
Other.....	227,036	102,983	448,706	265,282	120,331	551,753
Blocks and slabs.....	234,210	106,237	213,323	233,972	106,129	231,008
Surimi.....	29,312	13,296	15,956	22,553	10,230	10,879
Shrimp.....	578,908	262,591	2,448,468	644,702	292,435	2,942,635
Crabmeat.....	11,272	5,113	50,043	14,462	6,560	66,918
Lobster:						
American.....	37,948	17,213	220,988	40,798	18,506	238,881
Spiny.....	25,082	11,377	224,872	24,674	11,192	242,181
Scallops (meats).....	58,686	26,620	197,855	60,146	27,282	237,078
Other fish and shellfish.....	219,702	99,656	481,321	273,933	124,255	626,023
Total, fresh and frozen..	2,726,817	1,236,876	6,043,720	2,861,538	1,297,985	7,021,925
Canned:						
Anchovy.....	7,050	3,198	23,197	6,942	3,149	22,247
Herring.....	1,563	709	2,458	1,488	675	2,078
Mackerel.....	20,274	9,196	10,758	28,779	13,054	15,912
Salmon.....	2,266	1,028	6,219	1,228	557	4,793
Sardines.....	40,926	18,564	46,532	42,771	19,401	49,302
Tuna.....	193,037	87,561	215,892	212,171	96,240	249,963
Clams.....	11,054	5,014	12,410	9,855	4,470	10,807
Crabmeat.....	12,773	5,794	48,719	15,871	7,199	66,521
Lobsters.....	798	362	7,271	176	80	1,595
Oysters.....	10,198	4,626	28,753	9,934	4,506	24,795
Shrimp.....	3,563	1,616	9,032	3,620	1,642	10,954
Balls, cakes, and puddings.....	8,344	3,785	13,948	8,523	3,866	14,512
Other fish and shellfish...	42,602	19,324	48,517	45,732	20,744	51,832
Total, canned.....	354,449	160,777	473,706	387,090	175,583	525,311
Cured:						
Dried.....	22,064	10,008	60,201	21,914	9,940	58,030
Pickled or salted.....	36,971	16,770	47,057	36,887	16,732	46,698
Smoked or kippered.....	8,382	3,802	24,462	10,234	4,642	26,875
Total, cured.....	67,417	30,580	131,720	69,035	31,314	131,603
Caviar and roe.....	5,088	2,308	35,305	4,286	1,944	31,169
Prepared meals.....	2,661	1,207	8,252	3,336	1,513	12,243
Other fish and shellfish.....	13,355	6,058	36,911	13,565	6,153	31,992
Total edible fishery products.....	3,169,787	1,437,806	6,729,614	3,338,849	1,514,492	7,754,243
Nonedible fishery products:						
Meal and scrap.....	135,561	61,490	33,981	142,049	64,433	36,484
Fish oils.....	35,622	16,158	18,967	25,622	11,622	23,388
Other.....	-	-	6,277,793	-	-	6,714,211
Total nonedible fishery fishery products.....	-	-	6,330,741	-	-	6,774,083
Grand total.....	-	-	13,060,355	-	-	14,528,326

(1) Includes loins and discs.

Note:--Data include imports into the United States and Puerto Rico and landings of tuna by foreign vessels at American Samoa. Statistics on imports are the weight of individual products as exported, i.e., fillets, steak whole, headed, etc.

Imports and Exports of Fishery Products, Annual Summary, 1997, Current Fishery Statistics

No. 9702 provides additional information.

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS. 1988-97

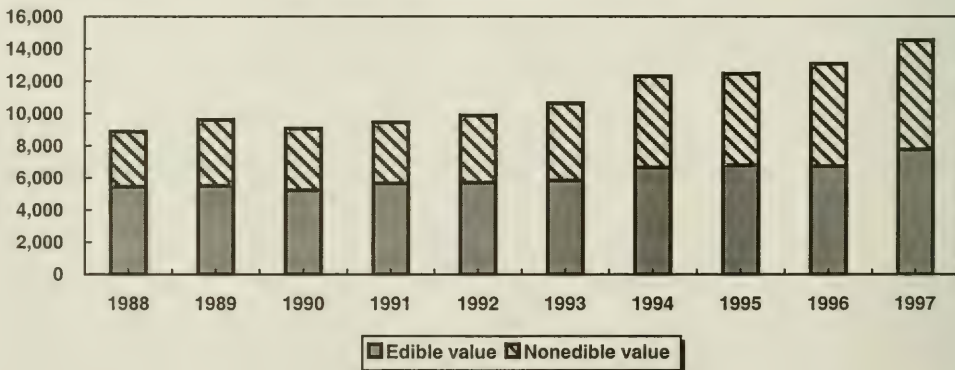
Year	Edible			Nonedible	Total
	Thousand pounds	Metric tons	-----Thousand dollars-----		
1988.....	2,967,755	1,346,165	5,441,628	3,430,369	8,871,997
1989.....	3,243,022	1,471,025	5,497,849	4,106,507	9,604,356
1990.....	2,884,596	1,308,444	5,233,167	3,814,513	9,047,680
1991.....	3,014,819	1,367,513	5,671,887	3,763,173	9,435,060
1992.....	2,893,954	1,312,689	5,705,876	4,165,386	9,871,262
1993.....	2,917,160	1,323,215	5,848,738	4,773,649	10,622,387
1994.....	3,034,841	1,376,595	6,645,132	5,341,740	11,986,872
1995.....	3,066,458	1,390,936	6,791,690	5,659,933	12,451,623
1996.....	3,169,787	1,437,806	6,729,614	6,330,741	13,060,355
1997.....	3,338,849	1,514,492	7,754,243	6,774,083	14,528,326

Source:--U.S. Department of Commerce, Bureau of the Census.



U.S. FISHERY PRODUCT IMPORTS 1988 - 1997

Millions of Dollars



IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1997

Continent and Country	Edible		Nonedible		Total
	Thousand pounds	Metric tons	- - - - -Thousand dollars- - - - -		
North America:					
Canada.....	562,222	255,022	1,306,292	783,825	2,090,117
Mexico.....	146,520	66,461	492,190	201,478	693,668
Panama.....	42,663	19,352	116,727	6,495	123,222
Costa Rica.....	29,705	13,474	73,591	47,742	121,333
Costa Rica.....	35,571	16,135	111,281	8	111,289
Other.....	82,421	37,386	271,644	140,171	411,815
Total.....	899,102	407,830	2,371,725	1,179,719	3,551,444
South America:					
Ecuador.....	240,460	109,072	714,923	9,316	724,239
Chile.....	164,278	74,516	316,744	18,985	335,729
Peru.....	29,048	13,176	65,773	62,489	128,262
Brazil.....	18,206	8,258	69,577	43,609	113,186
Argentina.....	72,754	33,001	88,785	15,853	104,638
Other.....	68,806	31,210	190,446	59,864	250,310
Total.....	593,551	269,233	1,446,248	210,116	1,656,364
Europe:					
European Union:					
Italy.....	1,243	564	3,878	1,318,889	1,322,767
France.....	1,885	855	4,281	567,169	571,450
Germany.....	1,248	566	2,460	258,469	260,929
United Kingdom...	8,675	3,935	19,501	150,872	170,373
Netherlands.....	9,056	4,108	25,137	65,982	91,119
Other.....	24,187	10,971	49,540	171,303	220,843
Total.....	46,294	20,999	104,797	2,532,684	2,637,481
Other:					
Russian Republic..	129,154	58,584	230,124	3,194	233,318
Iceland.....	84,859	38,492	184,299	6,181	190,480
Norway.....	70,975	32,194	125,497	24,825	150,322
Turkey.....	613	278	1,617	116,354	117,971
Switzerland.....	4	2	69	92,228	92,297
Other.....	10,714	4,860	19,399	45,810	65,209
Total.....	296,320	134,410	561,005	288,592	849,597
Asia:					
Thailand.....	348,047	157,873	1,166,988	383,335	1,550,323
Japan.....	99,121	44,961	212,238	537,006	749,244
India.....	72,456	32,866	170,858	362,665	533,523
China.....	233,163	105,762	321,185	184,885	506,070
Hong Kong.....	9,134	4,143	14,880	419,097	433,977
Other.....	569,907	258,508	1,048,848	543,449	1,592,297
Total.....	1,331,828	604,113	2,934,997	2,430,437	5,365,434
Oceania:					
New Zealand.....	75,135	34,081	140,705	7,979	148,684
Australia.....	6,878	3,120	54,337	49,909	104,246
French Polynesia....	1,155	524	2,210	27,145	29,355
Fiji.....	6,651	3,017	12,479	2,113	14,592
Western Samoa.....	7,928	3,596	8,961	29	8,990
Other.....	12,926	5,863	9,335	1,913	11,248
Total.....	110,673	50,201	228,027	89,088	317,115
Africa:					
South Africa.....	16,903	7,667	31,249	20,973	52,222
Namibia.....	12,890	5,847	30,854	693	31,547
Morocco.....	6,808	3,088	18,115	4,837	22,952
Mauritius.....	11,731	5,321	14,541	202	14,743
Tanzania.....	1,689	766	3,021	5,209	8,230
Other.....	11,060	5,017	9,664	11,533	21,197
Total.....	61,081	27,706	107,444	43,447	150,891
Grand total...	3,338,849	1,514,492	7,754,243	6,774,083	14,528,326

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

IMPORTS

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS,
BY SPECIES AND TYPE, 1996 AND 1997

Species and type	1996			1997		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Regular blocks and slabs:						
Cod.....	23,439	10,632	33,755	32,723	14,843	49,872
Flatfish.....	3,433	1,557	6,461	6,951	3,153	11,050
Haddock.....	12,740	5,779	18,122	14,650	6,645	21,378
Ocean perch.....	1,111	504	1,872	578	262	863
Pollock.....	144,234	65,424	109,985	133,528	60,568	101,772
Whiting.....	16,830	7,634	14,310	17,368	7,878	16,339
Other.....	6,903	3,131	6,450	9,630	4,368	12,069
Total.....	208,690	94,661	190,955	215,427	97,717	213,343
Minced blocks and slabs....	25,520	11,576	22,368	18,545	8,412	17,665
Grand total.....	234,210	106,237	213,323	233,972	106,129	231,008

Source:--U.S. Department of Commerce, Bureau of the Census.

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS,
BY COUNTRY OF ORIGIN, 1996 AND 1997

Country	1996			1997		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
China.....	81,120	36,796	59,366	81,052	36,765	61,042
Russian Federation.....	74,848	33,951	61,670	67,833	30,769	58,146
Norway.....	12,335	5,595	17,485	18,219	8,264	26,415
Canada.....	15,227	6,907	15,454	13,774	6,248	16,587
Iceland.....	16,380	7,430	22,859	9,806	4,448	14,917
Denmark.....	5,333	2,419	8,296	6,252	2,836	10,404
Argentina.....	9,257	4,199	6,890	10,487	4,757	8,827
South Africa.....	3,084	1,399	4,274	3,602	1,634	5,248
New Zealand.....	642	291	757	3,444	1,562	4,535
Other.....	15,983	7,250	16,272	19,502	8,846	24,887
Total.....	234,210	106,237	213,323	233,972	106,129	231,008

Source:--U.S. Department of Commerce, Bureau of the Census.

GROUNDFISH FILLET AND STEAK IMPORTS, BY SPECIES, 1996 AND 1997 (1)

Species	1996			1997		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Cod.....	74,191	33,653	163,986	95,051	43,115	210,068
Haddock (2).....	79,031	35,848	102,752	59,848	27,147	84,788
Ocean perch.....	24,987	11,334	43,679	21,226	9,628	39,350
Total.....	178,209	80,835	310,417	176,125	79,890	334,206

(1) Does not include data on fish blocks and slabs.

(2) Includes some quantities of cusk, hake, and pollock fillets.

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

CANNED TUNA NOT IN OIL, QUOTA AND IMPORTS, 1988-97

Year	Quota (1)		Over quota (2)		Total	
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand pounds</u>	<u>Metric tons</u>
1988.....	85,186	38,640	193,784	87,900	278,970	126,540
1989.....	76,733	34,806	234,323	106,288	311,056	141,094
1990.....	87,157	39,534	171,472	77,779	258,628	117,313
1991.....	75,093	34,062	237,237	107,610	312,330	141,672
1992.....	73,724	33,441	259,739	117,817	333,463	151,258
1993.....	72,681	32,968	144,287	65,448	216,968	98,416
1994.....	73,294	33,246	168,224	76,306	241,518	109,552
1995.....	73,367	33,279	126,176	57,233	199,543	90,512
1996.....	80,027	36,300	117,205	53,164	197,232	89,464
1997.....	78,620	35,662	139,715	63,374	218,335	99,036

(1) Imports have been subject to tariff quotas since April 14, 1956, and are based on 20 percent of the previous year's domestic pack, excluding the pack in American Samoa. Dutiable in 1956 to 1967 at 12.5 percent ad valorem; 1968, 11 percent; 1969, 10 percent; 1970, 8.5 percent; 1971, 7 percent; and 1972 to 1997, 6 percent.

(2) Dutiable in 1972 to 1997, 12.5 percent.

Note:--Data in this table will not agree with tuna import data released by the U.S. Department of Commerce, Bureau of the Census. Any tuna entered for consumption or withdrawn from a warehouse for consumption during the calendar year, except for receipts from insular possessions of the U.S., is subject to this quota.

Source:--U.S. Department of the Treasury, U.S. Customs Service.



CANNED TUNA, BY COUNTRY OF ORIGIN, 1996 AND 1997

Country	1996			1997		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Thailand.....	95,869	43,486	113,345	99,513	45,139	129,163
Philippines.....	64,639	29,320	60,569	80,677	36,595	80,161
Indonesia.....	28,168	12,777	35,150	20,911	9,485	27,215
Malaysia.....	2,079	943	3,753	2,784	1,263	4,894
Mexico.....	375	170	277	4,868	2,208	3,789
Namibia.....	-	-	-	825	374	1,342
Ecuador.....	906	411	852	1,058	480	1,033
Fiji.....	64	29	106	536	243	756
Spain.....	247	112	675	196	89	499
Other.....	690	313	1,165	802	364	1,111
Total.....	193,037	87,561	215,892	212,171	96,240	249,963

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

SHRIMP IMPORTS, BY COUNTRY OF ORIGIN, 1996 AND 1997

Country	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
North America:						
Mexico.....	67,873	30,787	327,720	74,864	33,958	374,102
Panama.....	19,092	8,660	68,574	23,236	10,540	87,128
Honduras.....	19,559	8,872	69,564	18,027	8,177	70,177
El Salvador.....	12,079	5,479	38,624	7,390	3,352	29,974
Nicaragua.....	7,432	3,371	25,298	7,564	3,431	28,663
Canada.....	19,744	8,956	26,611	11,254	5,105	26,326
Guatemala.....	9,178	4,163	29,595	4,773	2,165	19,055
Costa Rica.....	3,364	1,526	15,511	3,951	1,792	15,870
Belize.....	1,105	501	4,292	1,625	737	7,399
Greenland.....	939	426	2,503	820	372	1,873
Other.....	64	29	246	79	36	235
Total.....	160,429	72,770	608,538	153,583	69,665	660,802
South America:						
Ecuador.....	97,194	44,087	369,817	140,517	63,738	583,262
Venezuela.....	15,119	6,858	47,862	19,098	8,663	76,162
Peru.....	4,469	2,027	18,196	9,883	4,483	45,577
Colombia.....	6,695	3,037	26,506	7,172	3,253	28,539
Guyana.....	8,814	3,998	22,220	9,453	4,288	25,675
Brazil.....	1,997	906	6,528	1,215	551	4,856
Suriname.....	-	-	-	1,396	633	4,255
Chile.....	664	301	2,353	750	340	2,740
Argentina.....	-	-	-	42	19	46
Total.....	134,952	61,214	493,482	189,525	85,968	771,112
Europe:						
European Union:						
Denmark.....	787	357	2,112	397	180	798
Spain.....	2	1	7	44	20	241
United Kingdom.....	256	116	567	53	24	204
Germany.....	7	3	20	35	16	68
Netherlands.....	22	10	48	11	5	29
Other.....	291	132	931	20	9	74
Total.....	1,365	619	3,685	560	254	1,414
Other:						
Iceland.....	494	224	1,636	313	142	999
Norway.....	291	132	1,032	119	54	372
Other.....	2	1	20	-	-	-
Total.....	787	357	2,688	432	196	1,371
Asia:						
Thailand.....	160,310	72,716	888,410	161,822	73,402	920,946
Indonesia.....	21,792	9,885	110,711	28,272	12,824	161,615
India.....	41,773	18,948	118,590	44,103	20,005	138,698
Bangladesh.....	20,357	9,234	109,623	21,539	9,770	132,487
China.....	17,077	7,746	35,407	28,393	12,879	67,763
Viet Nam.....	5,686	2,579	28,226	7,837	3,555	46,234
Philippines.....	2,676	1,214	12,332	2,617	1,187	12,983
Pakistan.....	5,355	2,429	14,089	2,967	1,346	11,111
Burma.....	1,312	595	5,363	1,398	634	6,763
Singapore.....	1,958	888	5,976	811	368	4,341
Other.....	6,069	2,753	19,301	4,070	1,846	15,189
Total.....	284,365	128,987	1,348,028	303,829	137,816	1,518,130
Oceania.....	60	27	435	35	16	276
Africa.....	514	233	644	357	162	484
Grand total.....	582,471	264,207	2,457,500	648,322	294,077	2,953,589

Note:--Statistics on imports are the weights of the individual products as received, i.e., raw headless, peeled, etc.

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

SHRIMP IMPORTS, BY TYPE OF PRODUCT, 1996 AND 1997

Type of product	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Shell-on (heads off).....	318,000	144,244	1,393,216	343,642	155,875	1,626,734
Peeled:						
Canned.....	3,563	1,616	9,032	3,620	1,642	10,954
Not breaded:						
Raw.....	206,670	93,745	763,008	235,550	106,845	952,130
Other.....	53,766	24,388	289,809	65,060	29,511	361,538
Breaded.....	472	214	2,435	450	204	2,233
Total.....	582,471	264,207	2,457,500	648,322	294,077	2,953,589

Source:--U.S. Department of Commerce, Bureau of the Census.



FISH MEAL AND SCRAP IMPORTS, BY COUNTRY OF ORIGIN, 1996 AND 1997

Country	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Peru.....	16,883	7,658	3,633	47,862	21,710	11,017
Mexico.....	38,197	17,326	8,968	32,968	14,954	7,858
Canada.....	13,419	6,087	4,281	16,788	7,615	5,671
Iceland.....	11,243	5,100	3,302	17,485	7,931	5,229
Panama.....	11,155	5,060	1,965	20,046	9,093	3,923
Chile.....	30,554	13,859	7,076	6,276	2,847	1,602
Japan.....	73	33	84	106	48	671
France.....	24	11	20	165	75	120
Ukraine.....	152	69	102	141	64	94
Other.....	13,860	6,287	4,550	212	96	299
Total.....	135,561	61,490	33,981	142,049	64,433	36,484

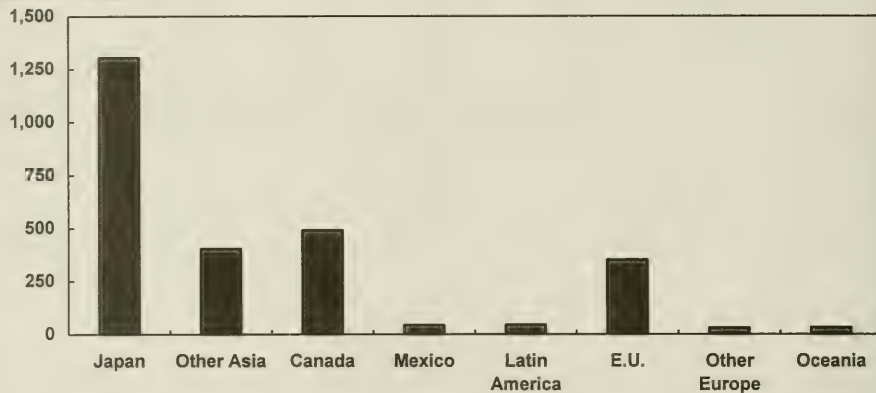
Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

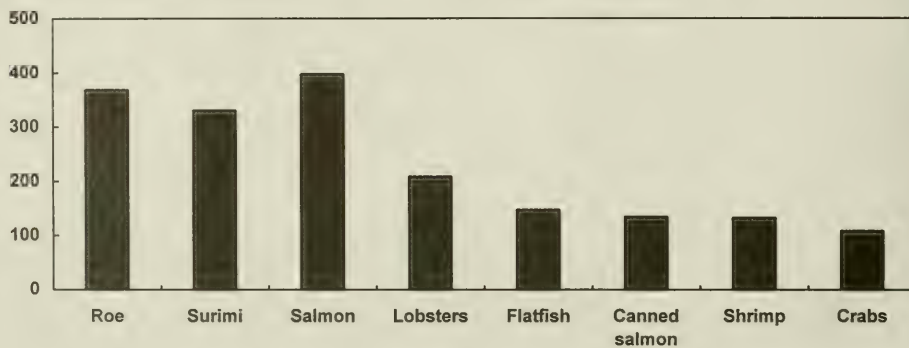
EXPORTS

**U.S. EXPORTS OF EDIBLE FISHERY PRODUCTS, 1997
TO MAJOR MARKETS**

Millions of Dollars

**U.S. EXPORTS OF EDIBLE FISHERY PRODUCTS, 1997
BY MAJOR GROUP**

Millions of Dollars



EXPORTS

FISHERY PRODUCTS EXPORTS, BY PRINCIPAL ITEMS, 1996 AND 1997 (1)

Item	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Edible fishery products:						
Fresh and frozen:						
Whole or eviscerated:						
Freshwater.....	4,749	2,154	6,742	7,972	3,616	8,330
Flatfish.....	179,161	81,267	140,753	238,637	108,245	148,158
Groundfish.....	139,840	63,431	112,375	129,915	58,929	97,640
Herring.....	79,866	36,227	53,131	87,633	39,750	48,245
Sablefish.....	37,716	17,108	93,756	28,770	13,050	64,314
Salmon.....	276,973	125,634	469,812	189,942	86,157	307,521
Tuna.....	31,382	14,235	38,278	24,092	10,928	34,527
Other.....	299,058	135,652	245,564	264,612	120,027	226,043
Fillets, and steaks:						
Freshwater.....	710	322	2,206	379	172	747
Groundfish.....	41,691	18,911	44,399	23,367	10,599	25,820
Other.....	31,967	14,500	52,887	31,268	14,183	47,608
Blocks and slabs.....	64,229	29,134	60,481	64,101	29,076	61,786
Surimi.....	284,702	129,140	269,754	310,242	140,725	330,976
Fish sticks.....	21,729	9,856	29,555	25,009	11,344	31,508
Clams.....	2,661	1,207	4,594	1,803	818	3,867
Crabs.....	46,742	21,202	162,403	43,133	19,565	108,661
Crabmeat.....	3,106	1,409	6,094	3,399	1,542	7,818
Lobsters.....	41,398	18,778	195,261	47,249	21,432	208,646
Scallops (meats).....	6,191	2,808	22,318	9,861	4,473	37,116
Sea urchins.....	5,622	2,550	12,998	7,321	3,321	19,177
Shrimp.....	38,638	17,526	145,064	34,813	15,791	133,442
Squid.....	137,042	62,162	69,419	169,509	76,889	91,996
Other fish and shellfish	28,342	10,702	56,654	34,081	11,843	60,784
Total, fresh and frozen...	1,798,766	815,915	2,294,498	1,769,136	802,475	2,104,730
Canned:						
Salmon.....	95,530	43,332	154,093	81,621	37,023	135,437
Sardines.....	12,207	5,537	9,623	9,321	4,228	8,115
Tuna.....	9,866	4,475	14,937	9,967	4,521	15,649
Abalone.....	805	365	5,427	392	178	7,884
Crabmeat.....	337	153	1,358	608	276	1,332
Shrimp.....	2,665	1,209	11,581	1,470	667	7,029
Squid.....	7,608	3,451	4,404	5,725	2,597	3,504
Other fish and shellfish	26,389	11,970	22,393	20,386	9,247	23,761
Total, canned.....	155,407	70,492	223,816	129,492	58,737	202,711
Cured:						
Dried.....	9,431	4,278	19,653	3,221	1,461	10,347
Pickled or salted.....	12,665	5,745	19,090	6,691	3,035	8,048
Smoked or kippered.....	1,096	497	3,150	679	308	2,503
Total, cured.....	23,192	10,520	41,893	10,591	4,804	20,898
Caviar and roe:						
Herring.....	34,806	15,788	51,638	18,483	8,384	19,763
Pollock.....	29,284	13,283	154,633	37,209	16,878	162,422
Salmon.....	27,952	12,679	97,775	17,491	7,934	63,487
Sea urchin.....	7,167	3,251	107,384	6,049	2,744	87,090
Other.....	11,680	5,298	39,467	10,725	4,865	36,361
Total, caviar and roe...	110,889	50,299	450,897	89,959	40,805	369,123
Prepared meals.....	1,975	896	2,848	1,852	840	2,591
Other fish and shellfish.	21,826	9,900	18,330	17,859	8,101	13,029
Total edible fishery products.....	2,112,055	958,022	3,032,282	2,018,889	915,762	2,713,082
Nonedible fishery products:						
Meal and scrap.....	186,412	84,556	52,931	216,289	98,108	57,197
Fish oils.....	187,294	84,956	36,423	215,255	97,639	53,716
Other.....	-	-	5,568,238	-	-	6,583,336
Total nonedible fishery products.....	-	-	5,621,169	-	-	6,640,533
Grand total.....	-	-	8,653,451	-	-	9,353,615

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

FISHERY PRODUCTS EXPORTS, 1988-97 (1)

Year	Edible		Nonedible		Total
	Thousand pounds	Metric tons	- - - Thousand dollars - - -		
1988.....	1,085,935	492,577	2,213,326	125,061	2,338,387
1989.....	1,405,977	637,747	2,355,603	2,582,538	4,938,141
1990.....	1,947,292	883,286	2,881,262	3,084,677	5,965,939
1991.....	2,058,594	933,772	3,155,771	3,386,037	6,541,808
1992.....	2,087,606	946,932	3,465,667	3,653,965	7,119,632
1993.....	1,986,027	900,856	3,076,813	3,847,911	6,924,724
1994.....	1,978,507	897,445	3,126,120	4,254,741	7,380,861
1995.....	2,047,181	928,595	3,262,242	5,005,878	8,268,120
1996.....	2,112,055	958,022	3,032,282	5,621,169	8,653,451
1997.....	2,018,889	915,762	2,713,082	6,640,533	9,353,615

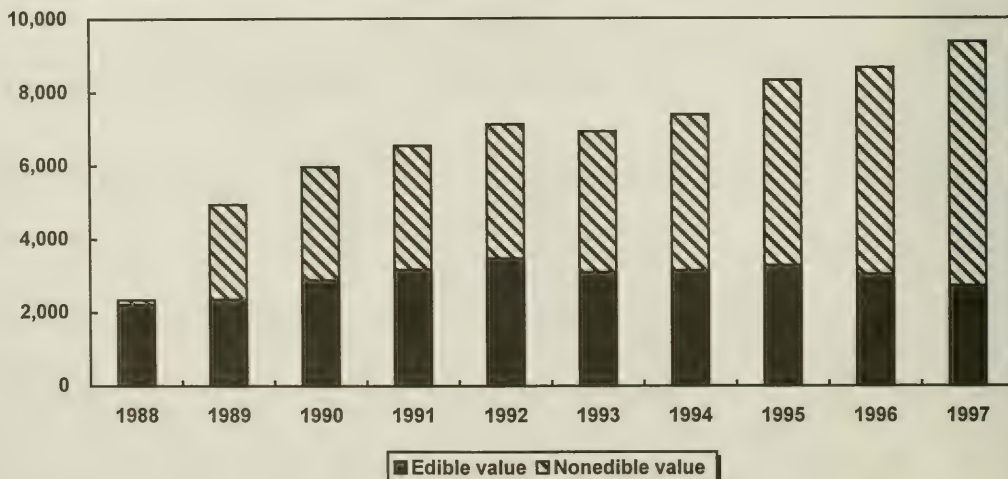
(1) Figures reflect both domestic and foreign (re-exports).

NOTE:--The increase in the nonedible value beginning in 1989 is due to re-examination of commodities that are considered to be based on fishery products including fish, shellfish, aquatic plants and animals and any products thereof, including processed and manufactured products.

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. FISHERY PRODUCT EXPORTS 1988 - 1997

Millions of Dollars



EXPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS EXPORTS, 1997 (1)

Continent and Country	Edible		Nonedible		Total
	Thousand pounds	Metric tons	- - - - -Thousand dollars- - - - -		
North America:					
Canada.....	278,216	126,198	492,650	1,343,513	1,836,163
Mexico.....	26,197	11,883	45,271	441,049	486,320
Panama.....	2,262	1,026	2,641	63,687	66,328
Dominican Republic....	5,214	2,365	6,001	55,023	61,024
Netherlands Antilles..	1,567	711	2,320	55,913	58,233
Other.....	14,755	6,693	23,323	209,399	232,722
Total.....	328,212	148,876	572,206	2,168,584	2,740,790
South America:					
Brazil.....	1,700	771	4,575	174,743	179,318
Argentina.....	860	390	823	72,323	73,146
Venezuela.....	2,498	1,133	1,410	66,133	67,543
Colombia.....	1,806	819	1,887	56,725	58,612
Chile.....	196	89	445	57,050	57,495
Other.....	2,873	1,303	2,568	86,480	89,048
Total.....	9,932	4,505	11,708	513,454	525,162
Europe:					
European Union:					
United Kingdom.....	48,933	22,196	86,250	257,875	344,125
Netherlands.....	17,471	7,925	22,936	197,435	220,371
France.....	58,012	26,314	82,596	129,958	212,554
Germany.....	14,597	6,621	22,242	147,191	169,433
Italy.....	22,291	10,111	37,453	121,231	158,684
Other.....	91,121	41,332	100,770	312,205	412,975
Total.....	252,424	114,499	352,247	1,165,895	1,518,142
Other:					
Switzerland.....	1,060	481	2,773	567,743	570,516
Russian Federation..	5,243	2,378	8,124	18,844	26,968
Norway.....	14,295	6,484	13,276	13,639	26,915
Poland.....	1,627	738	653	9,477	10,130
Turkey.....	686	311	586	7,488	8,074
Other.....	8,944	4,057	5,515	33,481	38,996
Total.....	31,854	14,449	30,927	650,672	681,599
Asia:					
Japan.....	879,181	398,794	1,304,639	610,477	1,915,116
Hong Kong.....	21,107	9,574	48,710	356,023	404,733
South Korea.....	134,547	61,030	125,190	180,333	305,523
Taiwan.....	20,818	9,443	61,305	142,356	203,661
Singapore.....	3,602	1,634	9,804	177,926	187,730
Other.....	286,360	129,892	159,562	448,886	608,448
Total.....	1,345,615	610,367	1,709,210	1,916,001	3,625,211
Oceania:					
Australia.....	42,606	19,326	28,537	137,618	166,155
New Zealand.....	2,297	1,042	2,655	23,479	26,134
French Polynesia.....	897	407	1,096	1,334	2,430
New Caledonia.....	42	19	49	903	952
Fiji.....	877	398	484	294	778
Other.....	939	426	895	1,414	2,309
Total.....	47,659	21,618	33,716	165,042	198,758
Africa:					
South Africa.....	1,936	878	2,025	40,205	42,230
Egypt.....	888	403	689	6,880	7,569
Nigeria.....	-	-	-	3,305	3,305
Zimbabwe.....	-	-	-	2,823	2,823
Mauritius.....	-	-	-	1,516	1,516
Other.....	368	167	354	6,156	6,510
Total.....	3,192	1,448	3,068	60,885	63,953
Grand total.....	2,018,889	915,762	2,713,082	6,640,533	9,353,615

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

EXPORTS

**FRESH AND FROZEN SHRIMP EXPORTS,
BY COUNTRY OF DESTINATION, 1996 AND 1997 (1)**

Country	1996			1997		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Canada.....	19,015	8,625	74,828	17,381	7,884	71,724
Mexico.....	7,211	3,271	24,123	8,023	3,639	24,772
Japan.....	2,284	1,036	11,286	1,620	735	9,366
China.....	1,975	896	5,071	1,495	678	4,119
Honduras.....	904	410	3,869	935	424	3,558
Brazil.....	340	154	752	988	448	3,261
Thailand.....	1,687	765	6,086	809	367	2,958
Norway.....	820	372	3,567	628	285	2,684
South Korea.....	500	227	2,027	267	121	1,258
Other.....	3,902	1,770	13,455	2,668	1,210	9,742
Total.....	38,638	17,526	145,064	34,813	15,791	133,442

(1) Figures reflect both domestic and foreign (re-export).

Source:--U.S. Department of Commerce, Bureau of the Census.



**CANNED SHRIMP EXPORTS,
BY COUNTRY OF DESTINATION, 1996 AND 1997 (1)**

Country	1996			1997		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Canada.....	963	437	4,739	423	192	2,462
Belgium.....	132	60	818	247	112	1,460
Thailand.....	437	198	2,281	229	104	1,271
Indonesia.....	57	26	348	163	74	577
Ecuador.....	207	94	1,315	75	34	403
China.....	71	32	197	49	22	218
Taiwan.....	-	-	-	24	11	206
Greece.....	538	244	427	220	100	175
South Korea.....	84	38	520	13	6	74
Other.....	176	80	936	26	12	183
Total.....	2,665	1,209	11,581	1,470	667	7,029

(1) Figures reflect both domestic and foreign (re-export).

Source:--U.S. Department of Commerce, Bureau of the Census.

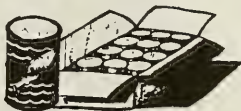
EXPORTS

FRESH AND FROZEN SALMON EXPORTS, WHOLE OR Eviscerated,
BY COUNTRY OF DESTINATION, 1996 AND 1997 (1)

Country	1996			1997		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Japan.....	176,441	80,033	344,756	113,477	51,473	208,038
Canada.....	55,565	25,204	73,794	35,289	16,007	52,136
France.....	11,180	5,071	11,068	11,058	5,016	12,750
Belgium.....	4,559	2,068	5,288	3,662	1,661	4,383
Denmark.....	5,337	2,421	5,973	3,366	1,527	3,566
Spain.....	2,293	1,040	1,866	3,186	1,445	3,231
Taiwan.....	2,901	1,316	5,333	1,382	627	3,230
Germany.....	2,057	933	2,337	2,899	1,315	2,849
China.....	2,156	978	3,182	2,533	1,149	2,513
Other.....	14,484	6,570	16,215	13,089	5,937	14,825
Total.....	276,973	125,634	469,812	189,942	86,157	307,521

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

CANNED SALMON EXPORTS,
BY COUNTRY OF DESTINATION, 1996 AND 1997 (1)

Country	1996			1997		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
United Kingdom.....	40,809	18,511	73,252	35,075	15,910	67,228
Canada.....	29,297	13,289	42,845	20,763	9,418	29,277
Australia.....	12,225	5,545	18,103	11,565	5,246	18,415
Netherlands.....	6,329	2,871	10,148	6,479	2,939	10,192
New Zealand.....	672	305	881	1,664	755	2,140
Belgium.....	1,270	576	1,826	1,612	731	2,108
France.....	611	277	1,085	831	377	1,139
Japan.....	522	237	761	589	267	910
Ireland.....	650	295	966	388	176	668
Other.....	3,144	1,426	4,226	2,654	1,204	3,360
Total.....	95,530	43,332	154,093	81,621	37,023	135,437

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

FRESH AND FROZEN CRAB EXPORTS,
BY COUNTRY OF DESTINATION, 1996 AND 1997 (1)

Country	1996			1997		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Japan.....	35,044	15,896	137,529	28,955	13,134	82,230
Canada.....	8,702	3,947	15,535	10,571	4,795	17,712
Thailand.....	216	98	951	897	407	2,658
China.....	1,962	890	5,849	1,349	612	2,228
Taiwan.....	117	53	167	421	191	722
Hong Kong.....	51	23	284	163	74	418
Mexico.....	79	36	244	123	56	401
United Kingdom.....	104	47	528	55	25	332
Belgium.....	7	3	65	49	22	313
Other.....	461	209	1,251	549	249	1,647
Total.....	46,742	21,202	162,403	43,133	19,565	108,661

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

FRESH AND FROZEN CRABMEAT EXPORTS,
BY COUNTRY OF DESTINATION, 1996 AND 1997 (1)

Country	1996			1997		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Japan.....	853	387	2,636	1,497	679	3,813
Russian Federation...	547	248	499	875	397	1,206
China.....	97	44	130	183	83	598
Hong Kong.....	236	107	245	159	72	459
Canada.....	126	57	397	150	68	443
Philippines.....	-	-	-	51	23	200
Switzerland.....	2	1	3	15	7	168
Mexico.....	26	12	86	86	39	149
South Korea.....	198	90	331	15	7	102
Other.....	1,021	463	1,767	368	167	680
Total.....	3,106	1,409	6,094	3,399	1,542	7,818

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

FISH AND MARINE ANIMAL OIL EXPORTS,
BY COUNTRY OF DESTINATION, 1996 AND 1997 (1)

Country	1996			1997		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Netherlands.....	99,416	45,095	16,248	116,249	52,730	26,420
Canada.....	55,904	25,358	13,013	46,806	21,231	13,244
Mexico.....	14,888	6,753	3,229	22,716	10,304	5,131
South Korea.....	8,719	3,955	1,905	10,452	4,741	2,688
China.....	1,003	455	631	5,099	2,313	2,068
Hong Kong.....	51	23	91	3,018	1,369	1,619
Japan.....	3,673	1,666	657	6,762	3,067	1,251
Spain.....	2,864	1,299	395	2,643	1,199	772
United Kingdom.....				185	84	108
Other.....	776	352	254	1,325	601	415
Total.....	187,294	84,956	36,423	215,255	97,639	53,716

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

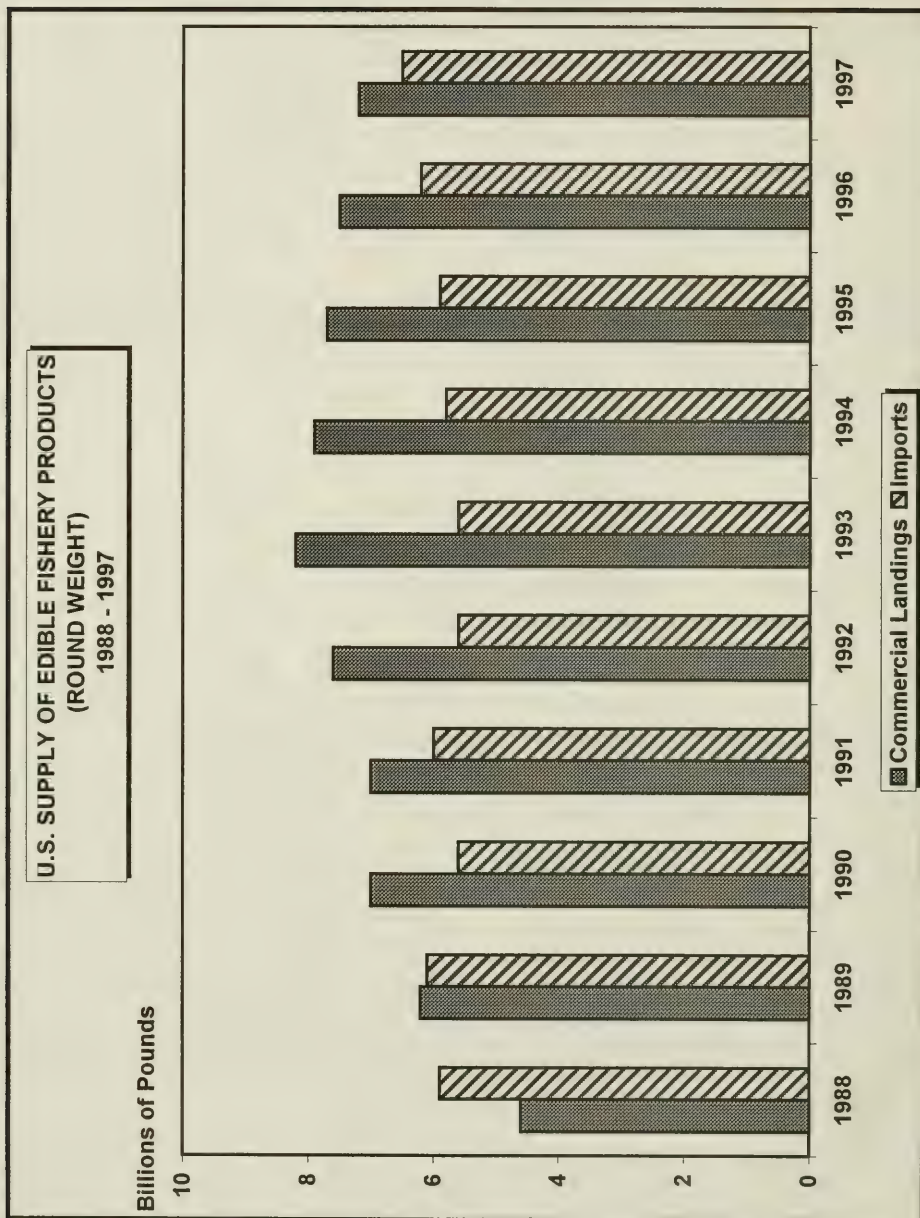


FISH MEAL EXPORTS, BY COUNTRY OF DESTINATION, 1996 AND 1997 (1)

Country	1996			1997		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
China.....	24,486	11,107	7,653	73,318	33,257	13,995
Taiwan.....	49,456	22,433	13,882	43,651	19,800	10,897
Canada.....	31,274	14,186	7,224	39,169	17,767	10,463
Japan.....	20,719	9,398	5,683	22,123	10,035	6,108
Hong Kong.....	6,261	2,840	1,688	10,373	4,705	2,421
Philippines.....	19,868	9,012	4,567	7,474	3,390	2,386
Thailand.....	1,164	528	2,651	494	224	2,190
Mexico.....	2,981	1,352	755	1,887	856	2,093
Saudi Arabia.....				5,615	2,547	1,721
Other.....	30,203	13,700	8,828	12,185	5,527	4,923
Total.....	186,412	84,556	52,931	216,289	98,108	57,197

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.



SUPPLY OF FISHERY PRODUCTS

99

U.S. SUPPLY OF EDIBLE AND INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1988-97 (Round weight)

Year	Domestic commercial landings (1)		Imports (2)		Total
	<u>Million pounds</u>	<u>Percent</u>	<u>Million pounds</u>	<u>Percent</u>	<u>Million pounds</u>
1988.....	7,192	49.2	7,436	50.8	14,628
1989.....	8,463	54.7	7,022	45.3	15,485
1990.....	9,404	57.5	6,945	42.5	16,349
1991.....	9,484	58.0	6,879	42.0	16,363
1992.....	9,637	59.8	6,469	40.2	16,106
1993.....	10,467	51.5	9,867	48.5	20,334
1994.....	10,461	54.2	8,848	45.8	19,309
1995.....	9,788	59.4	6,696	40.6	16,484
1996.....	9,565	58.1	6,909	41.9	16,474
1997.....	9,846	57.5	7,286	42.5	17,132

(1) Preliminary.

(2) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.

Note:--The weights of U.S. landings and imports represent the round (live) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) which are shown in weight of meats (excluding the shell).

U.S. SUPPLY OF EDIBLE COMMERCIAL FISHERY PRODUCTS, 1988-97 (Round weight)

Year	Domestic commercial landings (1)		Imports (2)		Total
	<u>Million pounds</u>	<u>Percent</u>	<u>Million pounds</u>	<u>Percent</u>	<u>Million pounds</u>
1988.....	4,588	43.7	5,917	56.3	10,505
1989.....	6,204	50.6	6,064	49.4	12,268
1990.....	7,041	55.6	5,621	44.4	12,662
1991.....	7,031	54.0	5,989	46.0	13,020
1992.....	7,618	57.5	5,624	42.5	13,242
1993.....	8,214	59.4	5,607	40.6	13,821
1994.....	7,936	57.9	5,778	42.1	13,714
1995.....	7,667	56.4	5,917	43.6	13,584
1996.....	7,474	54.9	6,150	45.1	13,624
1997.....	7,248	52.8	6,491	47.2	13,739

(1) Preliminary.

(2) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.

U.S. SUPPLY OF INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1988-97 (Round weight)

Year	Domestic commercial landings (1)		Imports		Total
	<u>Million pounds</u>	<u>Percent</u>	<u>Million pounds</u>	<u>Percent</u>	<u>Million pounds</u>
1988.....	2,604	63.2	1,519	36.8	4,123
1989.....	2,259	70.2	958	29.8	3,217
1990.....	2,363	64.1	1,324	35.9	3,687
1991.....	2,453	73.4	890	26.6	3,343
1992.....	2,019	70.5	845	29.5	2,864
1993.....	2,253	34.6	4,260	65.4	6,513
1994.....	2,525	45.1	3,070	54.9	5,595
1995.....	2,121	73.1	779	26.9	2,900
1996.....	2,091	73.4	759	26.6	2,850
1997.....	2,898	78.5	795	21.5	3,693

(1) Preliminary.

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1996 AND 1997

Item	Domestic commercial landings		Imports (1)		Total	
	1996	1997	1996	1997	1996	1997
-----Million pounds--round weight-----						
Edible fishery products:						
Finfish.....	6,204	5,969	4,494	4,608	10,698	10,577
Shellfish.....	1,271	1,279	1,656	1,883	2,927	3,162
Total.....	7,475	7,248	6,150	6,491	13,625	13,739
Industrial fishery products:						
Finfish.....	2,069	2,428	759	795	2,828	3,223
Shellfish.....	21	169	(3)	(3)	21	169
Total.....	2,090	2,597	759	795	2,849	3,392
Total:						
Finfish.....	8,273	8,397	5,253	5,403	13,526	13,800
Shellfish.....	1,292	1,448	1,656	1,883	2,948	3,331
Total.....	9,565	9,845	6,909	7,286	16,474	17,131

See footnotes below.

VALUE OF U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1996 AND 1997

Item	Domestic commercial landings		Imports (1)		Total	
	1996	1997	1996	1997	1996	1997
-----Million dollars-----						
Edible fishery products:						
Finfish.....	1,667	1,570	2,974	3,288	4,641	4,858
Shellfish.....	1,688	1,733	3,756	4,458	5,444	6,191
Total.....	3,355	3,303	6,730	7,746	10,085	11,049
Industrial fishery products:						
Finfish.....	124	152	34	36	158	188
Shellfish.....	8	11	(3)	(3)	8	11
Total.....	132	163	(2) 34	(2) 36	166	199
Total:						
Finfish.....	1,791	1,722	3,008	3,324	4,799	5,046
Shellfish.....	1,696	1,744	3,756	4,458	5,452	6,202
Total.....	3,487	3,466	6,764	7,782	10,251	11,248

(1) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.

(2) Includes only quantity and value of fish meal.

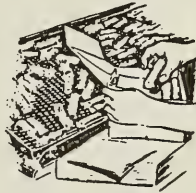
(3) Not available.

Note:--Value of domestic commercial landings is exvessel value.

U.S. SUPPLY OF ALL FILLETS AND STEAKS, 1988-97
(Edible weight)

Year	U.S. production (1)	Imports	Total	Exports	Total supply
<u>Thousand pounds</u>					
1988.....	378,236	517,709	895,945	100,301	795,644
1989.....	371,082	517,620	888,702	68,931	819,771
1990.....	440,692	458,413	899,105	51,599	847,506
1991.....	472,668	440,018	912,686	69,086	843,600
1992.....	448,664	408,059	856,723	52,247	804,476
1993.....	420,169	440,354	860,523	48,847	811,676
1994.....	425,022	439,059	864,081	43,252	820,829
1995.....	385,293	477,483	862,776	50,785	811,991
1996.....	423,309	476,469	899,778	74,368	825,410
1997.....	397,525	514,805	912,330	55,014	857,316

(1) Includes fillets used to produce blocks.



U.S. SUPPLY OF GROUND FISH FILLETS AND STEAKS, 1988-97
(Edible weight)

Year	U.S. production (1)	Imports	Total	Exports (2)	Total supply
<u>Thousand pounds</u>					
1988.....	206,786	253,187	459,973	14,417	445,556
1989.....	211,498	265,001	476,499	9,652	466,847
1990.....	258,809	200,980	459,789	6,944	452,845
1991.....	264,323	202,409	466,732	34,442	432,290
1992.....	252,358	172,755	425,113	17,507	407,606
1993.....	233,755	186,516	420,271	12,242	408,029
1994.....	220,357	189,097	409,454	17,639	391,815
1995.....	216,699	184,845	401,544	24,606	376,938
1996.....	245,406	178,209	423,615	41,691	381,924
1997.....	219,538	176,125	395,663	23,367	372,296

(1) Includes fillets used to produce blocks. Species include: cod, cusk, haddock, hake, pollock, and ocean perch. (2) Species include: cod 1988-96; pollock 1991-96.

U.S. SUPPLY OF FRESH AND FROZEN TUNA, 1988-97
(Round weight)

Year	U.S. commercial landings (1)			Imports (2)			Exports Total	Total supply
	For canning	Other	Total	For canning	Other	Total		
	----- Thousand pounds -----							
1988...	486,640	122,935	609,575	538,588	18,900	557,488	(3)	1,167,063
1989...	452,278	87,823	540,101	625,738	38,564	664,302	17,478	1,186,925
1990...	391,954	119,955	511,909	526,496	37,826	564,322	19,773	1,056,458
1991...	346,322	178,025	524,347	579,556	50,290	629,846	17,714	1,136,479
1992...	435,924	137,933	573,857	482,677	63,524	546,201	20,011	1,100,047
1993...	426,036	62,933	488,969	453,046	92,965	546,011	21,660	1,013,320
1994...	401,732	157,695	559,427	469,514	92,352	561,866	28,512	1,092,781
1995...	407,036	86,956	493,992	531,266	105,304	636,570	28,869	1,101,693
1996...	364,652	91,612	456,264	567,266	119,247	686,513	31,382	1,111,395
1997...	354,074	102,567	456,641	467,526	105,806	573,332	24,092	1,005,881

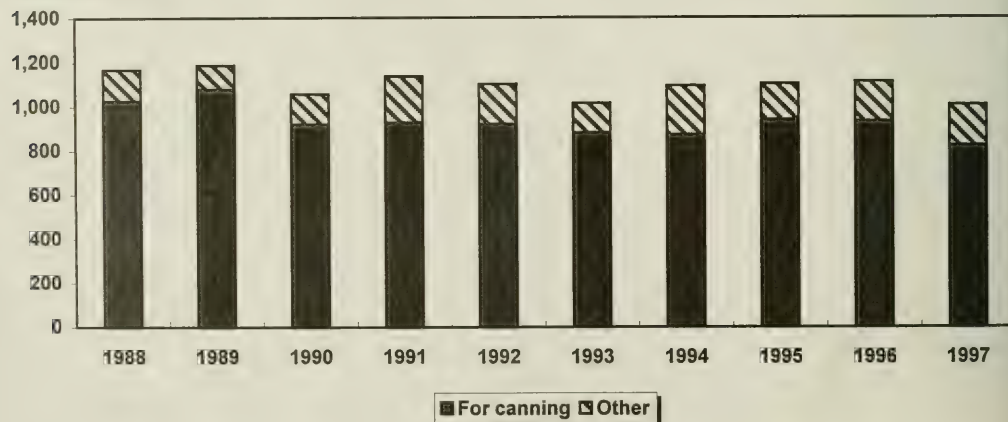
(1) Includes a quantity of fish landed at other ports by U.S.-flag vessels.

(2) Includes landings in American Samoa of foreign caught fish.

(3) Not reported.

U.S. SUPPLY OF FRESH AND FROZEN TUNA
(Round weight)

Millions of Pounds



U.S. SUPPLY OF CANNED SARDINES, 1988-97
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
-----Thousand pounds-----					
1988.....	18,611	53,359	71,970	8,717	63,253
1989.....	13,221	56,379	69,600	9,070	60,530
1990.....	13,240	56,963	70,203	9,048	61,155
1991.....	13,986	48,515	62,501	10,668	51,833
1992.....	17,437	36,511	53,948	12,690	41,258
1993.....	14,354	39,111	53,465	12,275	41,190
1994.....	15,560	43,942	59,502	11,010	48,492
1995.....	13,567	42,280	55,847	11,773	44,074
1996.....	17,672	40,926	58,598	12,207	46,391
1997.....	15,976	42,771	58,747	9,321	49,426

U.S. SUPPLY OF CANNED SALMON, 1988-97
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
-----Thousand pounds-----					
1988.....	88,419	3,528	91,947	32,993	58,954
1989.....	197,044	2,943	199,987	40,497	159,490
1990.....	196,383	1,378	197,761	49,546	148,215
1991.....	195,744	983	196,727	66,134	130,593
1992.....	149,453	974	150,427	77,895	72,532
1993.....	198,344	428	198,772	84,610	114,162
1994.....	206,841	1,093	207,934	90,915	117,019
1995.....	243,568	1,202	244,770	98,197	146,573
1996.....	197,163	2,266	199,429	95,530	103,899
1997.....	162,106	1,228	163,334	81,621	81,713

U.S. SUPPLY OF CANNED TUNA, 1988-97
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
-----Thousand pounds-----					
1988.....	598,181	244,504	842,685	(1)	842,685
1989.....	686,267	348,212	1,034,479	6,495	1,027,984
1990.....	580,601	284,593	865,194	9,039	856,155
1991.....	592,786	351,744	944,530	11,310	933,220
1992.....	608,981	323,413	932,394	10,141	922,253
1993.....	618,743	224,419	843,162	8,534	834,628
1994.....	609,514	249,043	858,557	8,391	850,166
1995.....	666,581	215,365	881,946	7,385	874,561
1996.....	675,816	193,037	868,853	9,866	858,987
1997.....	627,032	212,171	839,203	9,967	829,236

(1) Not reported.

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF KING CRAB, 1988-97
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (1)	Total supply
-----Thousand pounds-----					
1988.....	20,973	(2)	20,973	10,554	10,419
1989.....	26,391	5,150	31,541	(3) 13,196	18,345
1990.....	33,917	4,925	38,842	(3) 19,486	19,356
1991.....	28,140	7,087	35,227	15,320	19,907
1992.....	19,056	11,958	31,014	16,241	14,773
1993.....	24,732	7,395	32,127	24,372	7,755
1994.....	11,960	15,035	26,995	15,013	11,982
1995.....	14,673	18,360	33,033	11,847	21,186
1996.....	21,000	26,533	47,533	17,650	29,883
1997.....	18,027	39,666	57,693	12,516	45,177

(1) Imports, exports, foreign exports converted to round (live) weight by using these conversion factors: frozen, 1.75; meat, 4.50; and canned, 5.33 (2) Not reported.

(3) Estimated, based on available foreign import data.

U.S. SUPPLY OF SNOW (TANNER) CRABS, 1988-97
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
-----Thousand pounds-----					
1988.....	146,326	6,765	153,091	122,741	30,350
1989.....	164,643	3,927	168,570	(3) 111,028	57,542
1990.....	213,395	10,772	224,167	(3) 187,069	37,098
1991.....	357,122	19,091	376,213	(3) 316,162	60,051
1992.....	350,039	18,882	368,921	281,214	87,707
1993.....	255,733	31,224	286,957	220,618	66,339
1994.....	159,574	27,446	187,020	147,006	40,014
1995.....	80,817	20,969	101,786	59,805	41,981
1996.....	67,867	28,336	96,203	50,509	45,694
1997.....	118,898	41,959	160,857	50,604	110,253

(1) Converted to round (live) weight by multiplying fresh and frozen by 1.50; meat, 4.50; and canned, 5.00. (2) Domestic merchandise converted to round (live) weight by multiplying frozen weight by 2.13 (believed to be mostly sections); meat, 4.50; and canned, 5. Foreign exports converted using the same factors as imports. (3) Estimated, based on available foreign import data.

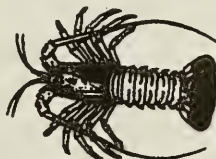
U.S. SUPPLY OF CANNED CRABMEAT, 1988-97
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
-----Thousand pounds-----					
1988.....	359	7,720	8,079	250	7,829
1989.....	504	8,280	8,784	930	7,854
1990.....	695	8,563	9,258	434	8,824
1991.....	77	11,385	11,462	525	10,937
1992.....	99	9,577	9,676	789	8,887
1993.....	70	9,817	9,887	668	9,219
1994.....	17	9,852	9,869	511	9,358
1995.....	65	12,441	12,506	276	12,230
1996.....	93	12,773	12,866	337	12,529
1997.....	83	15,871	15,954	608	15,346

U.S. SUPPLY OF AMERICAN LOBSTERS, 1988-97
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
-----Thousand pounds-----					
1988.....	48,643	72,638	121,281	(3)	121,281
1989.....	52,926	42,530	95,456	10,310	85,146
1990.....	61,017	49,592	110,609	15,274	95,335
1991.....	63,337	65,381	128,718	21,485	107,233
1992.....	55,841	59,335	115,176	20,332	94,844
1993.....	56,513	55,570	112,083	20,354	91,729
1994.....	66,416	65,949	132,365	31,646	100,719
1995.....	66,406	62,923	129,329	35,587	93,742
1996.....	71,641	65,379	137,020	39,919	97,101
1997.....	83,921	73,033	156,954	45,262	111,692

(1) Only imports from Canada and St. Pierre and Miquelon are considered American lobster and were converted to round (live) by using these conversion factors: 1.00, Whole; 4.50, meat; and 4.64, canned. (2) Domestic exports converted to live weight by 1.00, whole; 4.00, meat; and 4.50, canned. Foreign exports converted using import factors. (3) Not reported.



U.S. SUPPLY OF SPINY LOBSTERS, 1988-97
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
-----Thousand pounds-----					
1988.....	7,166	132,071	139,237	(3)	139,237
1989.....	8,125	87,793	95,918	6,373	89,545
1990.....	7,120	88,426	95,546	6,948	88,598
1991.....	7,096	81,332	88,428	3,388	85,040
1992.....	4,872	77,848	82,720	2,001	80,719
1993.....	6,076	70,884	76,960	1,306	75,654
1994.....	8,104	68,787	76,891	1,304	75,587
1995.....	7,123	86,900	94,023	5,035	88,988
1996.....	8,308	75,595	83,903	3,033	80,870
1997.....	7,240	74,120	81,360	5,842	75,518

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 3.00, tails; 4.35, other; and 4.50 canned. (2) Domestic exports converted to round weight by using: 1.00, whole; 3.00, tails; 4.00, other; 4.50, canned. Foreign exports converted using import factors. (3) Not reported.

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF CLAMS, 1988-97

(Meat weight)

Year	U.S. commercial landings (1)	Imports (2)	Total	Exports	Total supply
-----Thousand pounds-----					
1988.....	131,740	14,872	146,612	1,458	145,154
1989.....	138,166	13,254	151,420	1,863	149,557
1990.....	139,198	15,830	155,028	2,961	152,067
1991.....	134,243	12,291	146,534	2,948	143,586
1992.....	142,449	14,262	156,711	1,662	155,049
1993.....	147,752	9,579	157,331	1,809	155,522
1994.....	131,427	15,507	146,934	2,617	144,317
1995.....	134,224	12,645	146,869	2,853	144,016
1996.....	123,239	14,340	137,579	3,448	134,131
1997.....	114,180	13,184	127,364	3,651	123,713

(1) For specific breakout see table on page 1.

(2) Imports and exports were converted to meat weight by using these conversion factors: 0.40 in shell or shucked; 0.30, canned chowder and juice; and 0.93, other.

U.S. SUPPLY OF OYSTERS, 1988-97

(Meat weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports	Total supply
-----Thousand pounds-----					
1988.....	31,892	46,414	78,306	(2)	78,306
1989.....	29,250	37,662	66,912	1,090	65,822
1990.....	29,193	27,546	56,739	1,004	55,735
1991.....	31,859	30,547	62,406	739	61,667
1992.....	36,156	26,529	62,685	797	61,888
1993.....	33,575	28,244	61,819	1,131	60,688
1994.....	38,086	24,694	62,780	1,988	60,792
1995.....	40,380	24,200	64,580	1,908	62,672
1996.....	38,007	21,708	59,715	1,648	58,067
1997.....	39,652	20,533	60,185	2,191	57,994

(1) Imports and exports were converted to meat weight by using these conversion factors: 0.93, canned; 3.12, canned smoked; and 0.75, other. (2) Not reported.

U.S. SUPPLY OF SCALLOPS, 1988-97

(Meat weight)

Year	U.S. commercial landings (1)	Imports	Total	Exports	Total supply
-----Thousand pounds-----					
1988.....	42,994	32,039	75,033	1,369	73,664
1989.....	40,611	40,874	81,485	2,498	78,987
1990.....	41,591	39,839	81,430	7,099	74,331
1991.....	39,740	29,528	69,268	7,083	62,185
1992.....	33,884	38,682	72,566	3,589	68,977
1993.....	18,638	51,973	70,611	4,147	66,464
1994.....	25,469	56,676	82,145	5,990	76,155
1995.....	19,526	48,331	67,857	5,926	61,931
1996.....	18,197	58,686	76,883	6,191	70,692
1997.....	15,474	60,146	75,620	9,861	65,759

(1) For specific breakout see table on page 1.

U.S. SUPPLY OF ALL FORMS OF SHRIMP, 1988-97
(Heads-off weight)

Year	U.S. commercial landings (1)	Imports (2)	Total	Exports (3)	Total supply
-----Thousand pounds-----					
1988.....	203,350	598,210	801,560	34,784	766,776
1989.....	215,825	563,523	779,348	36,056	743,292
1990.....	213,899	579,427	793,326	59,683	733,643
1991.....	198,115	632,775	830,890	87,186	743,704
1992.....	207,086	694,254	901,340	81,604	819,736
1993.....	180,687	708,683	889,370	81,447	807,923
1994.....	174,969	749,993	924,962	77,755	847,207
1995.....	190,208	719,463	909,671	77,677	831,994
1996.....	195,902	720,852	916,754	75,130	841,624
1997.....	179,084	810,696	989,780	66,674	923,106

(1) Commercial landings were converted to heads-off weight by using these conversion factors: South Atlantic and Gulf, 0.629; and New England, Pacific and other, 0.57.

(2) Imports were converted to heads-off weight by using these conversion factors: breaded, 0.63 shell-on, 1.00; peeled raw, 1.28; canned, 2.52; and other, 2.40.

(3) Exports were converted to heads-off weight by using these conversion factors: domestic fresh and frozen, 1.18; canned, 2.02; other, 2.40; foreign--fresh and frozen, 1.00; canned, 2.52; and other, 2.40.



U.S. SUPPLY OF CANNED SHRIMP, 1988-97
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
-----Thousand pounds-----					
1988.....	4,476	14,138	18,614	2,187	16,427
1989.....	2,623	11,315	13,938	2,128	11,810
1990.....	710	9,735	10,445	2,670	7,775
1991.....	632	9,361	9,993	2,352	7,641
1992.....	640	9,273	9,913	1,931	7,982
1993.....	658	8,170	8,828	2,557	6,271
1994.....	463	6,314	6,777	1,841	4,936
1995.....	912	6,570	7,482	3,250	4,232
1996.....	819	3,563	4,382	2,665	1,717
1997.....	1,168	3,620	4,788	1,470	3,318

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF FISH MEAL AND SOLUBLES, 1988-97
(Product weight)

Year	U.S. production (1)	Imports (2)	Total	Exports	Total supply
-----Thousand pounds-----					
1988.....	755,520	265,310	1,020,830	153,946	866,884
1989.....	734,736	171,112	905,848	107,350	798,498
1990.....	670,328	239,426	909,754	141,888	767,866
1991.....	697,520	158,916	856,436	206,320	650,116
1992.....	691,016	150,911	841,927	258,511	583,416
1993.....	814,196	760,664	1,574,860	212,859	1,362,001
1994.....	880,852	548,288	1,429,140	159,937	1,269,203
1995.....	711,996	139,101	851,097	176,981	674,116
1996.....	684,121	135,561	819,682	186,412	633,270
1997.....	796,669	142,049	938,718	216,289	722,429

(1) Includes shellfish meal production plus the production of U.S. solubles. (2) Data do not include imports of fish solubles.

Note:--Wet weight of solubles has been converted to dry weight by reducing its poundage by one-half.

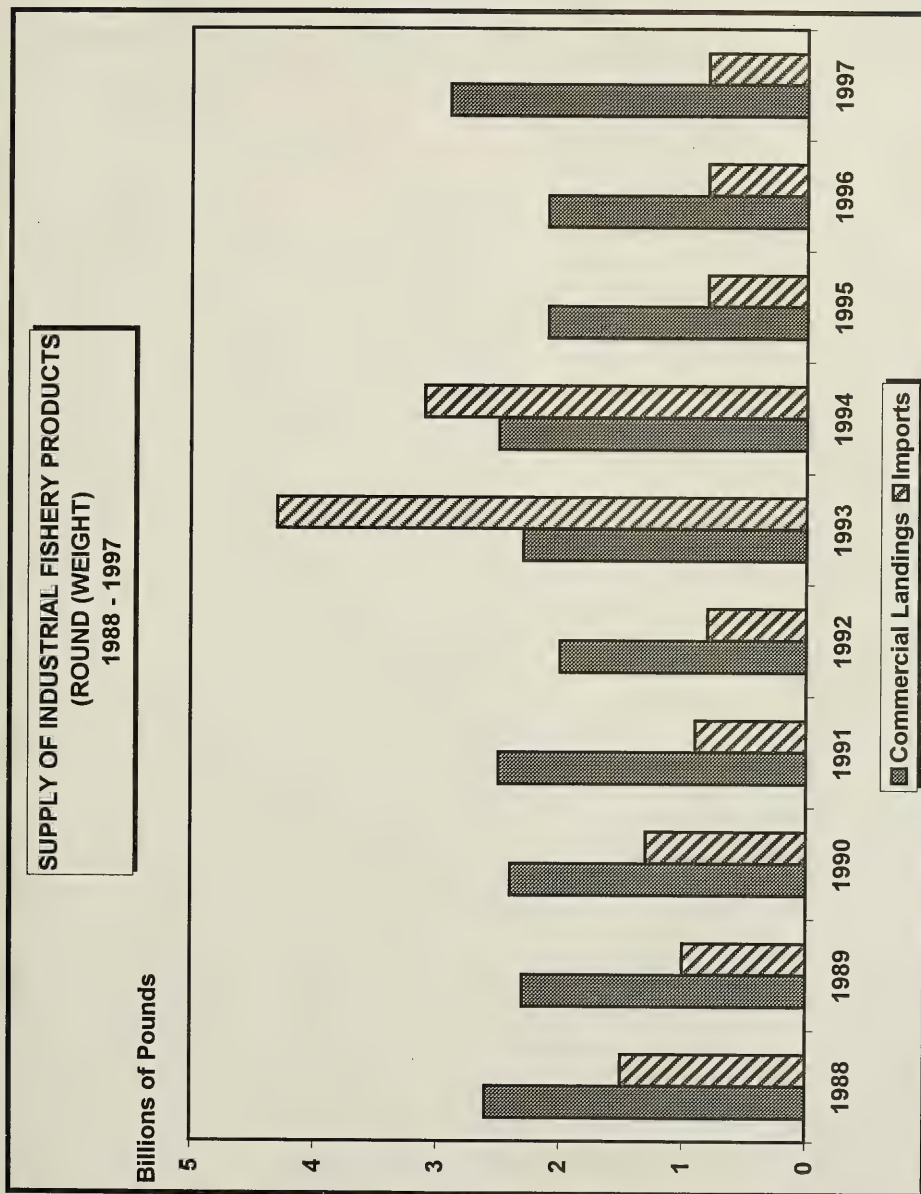
U.S. SUPPLY OF FISH MEAL, 1988-97
(Product weight)

Year	U.S. production (1)	Imports	Total	Exports	Total supply
-----Thousand pounds-----					
1988.....	643,796	265,310	909,106	153,946	755,160
1989.....	618,382	171,112	789,494	107,350	682,144
1990.....	577,498	239,426	816,924	141,888	675,036
1991.....	612,716	158,916	771,632	206,320	565,312
1992.....	644,512	150,911	795,423	258,511	536,912
1993.....	750,744	760,664	1,511,408	212,859	1,298,549
1994.....	807,833	548,288	1,356,121	159,937	1,196,184
1995.....	667,240	139,101	806,341	176,981	629,360
1996.....	643,124	135,561	778,685	186,412	592,273
1997.....	724,668	142,049	866,717	216,289	650,428

(1) Includes shellfish meal.

U.S. SUPPLY OF FISH OILS, 1988-97

Year	U.S. production	Imports	Total	Exports	Total supply
-----Thousand pounds-----					
1988.....	224,733	27,667	252,400	150,002	102,398
1989.....	225,478	25,449	250,927	198,009	52,918
1990.....	281,949	36,702	318,651	236,589	82,062
1991.....	267,345	21,828	289,173	254,525	34,648
1992.....	184,725	23,772	208,497	177,444	31,053
1993.....	293,452	26,052	319,504	184,488	135,016
1994.....	291,189	40,642	331,831	242,788	89,043
1995.....	241,941	23,913	265,854	260,394	5,460
1996.....	248,399	35,622	284,021	187,294	96,727
1997.....	283,379	25,622	309,001	215,255	93,746



PER CAPITA

U.S. CONSUMPTION

Annual per capita consumption of seafood products represents the pounds of edible meat consumed from domestically-caught and imported fish and shellfish adjusted for beginning and ending inventories, and exports, divided by the civilian population of the United States as of July 1 of each year.

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-97

Year	Civilian resident population July 1 (1) <u>Million persons</u>	Per capita consumption			
		Fresh and frozen (2)	Canned (3)	Cured (4)	Total
		- - - - - <u>Pounds, edible meat</u> - - - - -			
1909 (5).....	90.5	4.3	2.7	*4.0	11.0
1910.....	92.2	4.5	2.8	3.9	11.2
1911.....	93.9	4.8	2.8	3.7	11.3
1912.....	95.3	5.0	2.9	3.4	11.3
1913.....	97.2	5.3	2.9	3.3	11.5
1914.....	99.1	5.6	3 0	3.1	8.7
1915.....	100.5	5.8	2.4	3.0	11.2
1916.....	102.0	6.0	2.2	2.8	11.0
1917.....	103.3	6.2	2.0	2.7	10.9
1918.....	103.2	6.4	2.0	2.5	10.9
1919.....	104.5	6.4	2.8	2.4	11.6
1920.....	106.5	6.3	3.2	2.3	11.8
1921.....	108.5	6.2	2.2	2.1	10.5
1922.....	110.0	6.1	3.2	2.0	11.3
1923.....	111.9	6.0	2.9	1.8	10.7
1924.....	114.1	6.1	3.2	1.7	11.0
1925.....	115.8	6.3	3.2	1.6	11.1
1926.....	117.4	6.6	3.4	1.4	11.4
1927.....	119.0	7.0	3.9	1.3	12.2
1928.....	120.5	7.1	3.9	1.1	12.1
1929.....	121.8	6.9	3.9	1.1	11.9
1930.....	122.9	5.8	3.4	1.0	10.2
1931.....	123.9	4.9	3.2	0.7	8.8
1932.....	124.7	4.3	3.4	0.7	8.4
1933.....	125.4	4.2	3.9	0.6	8.7
1934.....	126.2	4.3	4.2	0.7	9.2
1935.....	127.1	5.1	4.7	0.7	10.5
1936.....	127.9	5.2	*5.8	0.7	11.7
1937.....	128.6	5.6	5.3	0.9	11.8
1938.....	129.6	5.2	4.8	0.8	10.8
1939.....	130.7	5.3	4.7	0.7	10.7
1940.....	132.1	5.7	4.6	0.7	11.0
1941.....	132.1	6.3	4.2	0.7	11.2
1942.....	131.4	5.2	2.9	0.6	8.7
1943.....	128.0	5.5	1.8	0.6	7.9
1944.....	127.2	5.5	2.6	0.6	8.7
1945.....	128.1	6.6	2.6	0.7	9.9
1946.....	138.9	5.9	4.2	0.7	10.8
1947.....	143.1	5.8	3.8	0.7	10.3
1948.....	145.7	6.0	4.4	0.7	11.1
1949.....	148.2	5.8	4.5	0.6	10.9
1950.....	150.8	6.3	4.9	0.6	11.8
1951.....	151.6	6.3	4.3	0.6	11.2
1952.....	153.9	6.2	4.3	0.7	11.2
1953.....	156.6	6.4	4.3	0.7	11.4
1954.....	159.7	6.2	4.3	0.7	11.2
1955.....	163.0	5.9	3.9	0.7	10.5
1956.....	166.1	5.7	4.0	0.7	10.4
1957.....	169.1	5.5	4.0	0.7	10.2
1958.....	172.2	5.7	4.3	0.6	10.6
1959.....	175.3	5.9	4.4	0.6	10.9

See notes at end of table.

(Continued)

U.S. CONSUMPTION

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-97 - Continued

Year	Civilian resident population July 1 (1)	Per capita consumption			
		Fresh and frozen (2)	Canned (3)	Cured (4)	Total
	<u>Million persons</u>	<u>- - - - - Pounds, edible meat - - - - -</u>			
1960.....	178.1	5.7	4.0	0.6	10.3
1961.....	181.1	5.9	4.3	0.5	10.7
1962.....	183.7	5.8	4.3	0.5	10.6
1963.....	186.5	5.8	4.4	0.5	10.7
1964.....	189.1	5.9	4.1	0.5	10.5
1965.....	191.6	6.0	4.3	0.5	10.8
1966.....	193.4	6.1	4.3	0.5	10.9
1967.....	195.3	5.8	4.3	0.5	10.6
1968.....	197.1	6.2	4.3	0.5	11.0
1969.....	199.1	6.6	4.2	0.4	11.2
1970.....	201.9	6.9	4.5	0.4	11.8
1971.....	204.9	6.7	4.3	0.5	11.5
1972.....	207.5	7.1	4.9	0.5	12.5
1973.....	209.6	7.4	5.0	0.4	12.8
1974.....	211.6	6.9	4.7	0.5	12.1
1975.....	213.8	7.5	4.3	0.4	12.2
1976.....	215.9	8.2	4.2	0.5	12.9
1977.....	218.1	7.7	4.6	0.4	12.7
1978.....	220.5	8.1	5.0	0.3	13.4
1979.....	223.0	7.8	4.8	0.4	13.0
1980.....	225.6	7.9	4.3	0.3	12.5
1981.....	227.8	7.8	4.6	0.3	12.7
1982.....	230.0	7.9	4.3	0.3	12.5
1983.....	232.1	8.4	4.7	0.3	13.4
1984.....	234.1	9.0	4.9	0.3	14.2
1985.....	236.2	9.8	5.0	0.3	15.1
1986.....	238.4	9.8	5.4	0.3	15.5
1987.....	240.6	*10.7	5.2	0.3	*16.2
1988.....	242.8	10.0	4.9	0.3	15.2
1989.....	245.1	10.2	5.1	0.3	15.6
1990.....	247.8	9.6	5.1	0.3	15.0
1991.....	250.5	9.7	4.9	0.3	14.9
1992.....	253.5	9.9	4.6	0.3	14.8
1993.....	256.4	10.2	4.5	0.3	15.0
1994.....	259.2	10.4	4.5	0.3	15.2
1995.....	261.4	10.0	4.7	0.3	15.0
1996.....	264.0	10.0	4.5	0.3	14.8
1997.....	266.4	9.9	4.4	0.3	14.6

(1) Resident population for 1909 to 1929 and civilian resident population for 1930 to date.

(2) Fresh and frozen fish consumption from 1910 to 1928 is estimated. Beginning in 1973, data include consumption of artificially cultivated catfish. Domestic landings used in calculating consumption are preliminary after 1977.

(3) Canned fish consumption for 1911 to 1920 is estimated. Beginning in 1921, it is based on production reports, packer stocks, and foreign trade statistics for individual years.

(4) Cured fish consumption for 1910 to 1928 is estimated.

(5) Data for 1909 estimate based on the 1908 census and foreign trade data.

*Record.

U.S. CONSUMPTION

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1977-97

Year	Salmon	Sardines	Tuna	Shellfish	Other	Total
-----Pounds-----						
1977.....	0.5	0.3	2.8	0.6	0.4	4.6
1978.....	0.6	0.3	3.3	0.5	0.3	5.0
1979.....	0.5	0.3	3.2	0.5	0.3	4.8
1980.....	0.5	0.3	3.0	0.4	0.1	4.3
1981.....	0.5	0.4	3.0	0.4	0.3	4.6
1982.....	0.5	0.3	2.8	0.4	0.3	4.3
1983.....	0.5	0.2	3.2	0.4	0.4	4.7
1984.....	0.6	0.2	3.2	0.4	0.5	4.9
1985.....	0.5	0.3	3.3	0.5	0.4	5.0
1986.....	0.5	0.3	3.6	0.5	0.5	5.4
1987.....	0.4	0.3	3.5	0.5	0.5	5.2
1988.....	0.3	0.3	3.6	0.4	0.3	4.9
1989.....	0.3	0.3	3.9	0.4	0.2	5.1
1990.....	0.4	0.3	3.7	0.3	0.4	5.1
1991.....	0.5	0.2	3.6	0.4	0.2	4.9
1992.....	0.5	0.2	3.5	0.3	0.1	4.6
1993.....	0.4	0.2	3.5	0.3	0.1	4.5
1994.....	0.4	0.2	3.3	0.3	0.3	4.5
1995.....	0.5	0.2	3.4	0.3	0.3	4.7
1996.....	0.5	0.2	3.2	0.3	0.3	4.5
1997.....	0.4	0.2	3.1	0.3	0.4	4.4

NOTE:--Domestic landings data used in calculating these data are preliminary after 1977.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1977-97

Year	Filletts and steaks (1)	Sticks and portions	Shrimp all preparation
-----Pounds (2)-----			
1977.....	2.5	2.0	1.6
1978.....	2.7	2.2	1.5
1979.....	2.7	*2.2	1.3
1980.....	2.4	2.0	1.4
1981.....	2.4	1.8	1.5
1982.....	2.5	1.7	1.5
1983.....	2.7	1.8	1.7
1984.....	3.0	1.8	1.9
1985.....	3.2	1.8	2.0
1986.....	3.4	1.8	2.2
1987.....	*3.6	1.7	2.4
1988.....	3.2	1.5	2.4
1989.....	3.1	1.5	2.3
1990.....	3.1	1.5	2.2
1991.....	3.0	1.2	2.4
1992.....	2.9	0.9	2.5
1993.....	2.9	1.0	2.5
1994.....	3.1	0.9	2.6
1995.....	2.9	1.2	2.5
1996.....	3.0	1.0	2.5
1997.....	3.0	1.0	*2.7

(1) Data include groundfish and other species. Data do not include blocks, but filletts could be made into blocks from which sticks and portions could be produced.

(2) Product weight of filletts and steaks and sticks and portions, edible (meat) weight of shrimp.
*Record.

Note:--Domestic landings data used in calculating these data are preliminary after 1977.

U.S. USE

Per capita use of commercial fish and shellfish is based on the supply of fishery products, both edible and nonedible (industrial), on a round weight equivalent basis, without considering the beginning or ending stocks, defense purchases, or exports.

Per capita use figures are not comparable with per capita consumption data. Per capita consumption figures represent edible (for human use) meat weight consumption rather than round weight consumption. In addition, per capita consumption includes allowances for beginning and ending stocks and exports, whereas the use does not include such allowances.

Per capita use is derived by using total population including U.S. Armed Forces overseas. The per capita consumption is derived by using civilian resident population.

U.S. ANNUAL PER CAPITA USE OF COMMERCIAL FISH AND SHELLFISH, 1960-97 (1)

Year	Total population including armed forces overseas July 1	U.S. supply			
			Commercial landings	Imports	Total
	<u>Million persons</u>	<u>Million pounds</u>	<u>-----Pounds-----</u>		
1960.....	180.7	8,223	27.3	18.2	45.5
1961.....	183.7	9,570	28.2	23.9	52.1
1962.....	186.5	10,408	28.7	27.1	55.8
1963.....	189.2	11,434	25.6	34.8	60.4
1964.....	191.9	12,031	23.7	39.0	62.7
1965.....	194.3	10,535	24.6	29.6	54.2
1966.....	196.6	12,469	22.2	41.2	63.4
1967.....	198.7	13,991	20.4	50.0	70.4
1968.....	200.7	17,381	20.7	65.9	86.6
1969.....	202.7	11,847	21.4	37.0	58.4
1970.....	205.1	11,474	24.0	31.9	55.9
1971.....	207.7	11,804	24.1	32.7	56.8
1972.....	209.9	13,849	22.9	43.1	66.0
1973.....	211.9	10,378	22.9	26.1	49.0
1974.....	213.9	9,875	23.2	23.0	46.2
1975.....	216.0	10,164	22.6	24.5	47.1
1976.....	218.0	11,593	24.7	28.5	53.2
1977.....	220.2	10,652	23.9	24.4	48.3
1978.....	222.6	11,509	27.1	24.6	51.7
1979.....	225.1	11,831	27.9	24.7	52.6
1980.....	227.7	11,357	28.5	21.4	49.9
1981.....	230.0	11,353	26.0	23.4	49.4
1982.....	232.2	12,011	27.4	24.3	51.7
1983.....	234.3	12,352	27.5	25.2	52.7
1984.....	236.3	12,552	27.3	25.8	53.1
1985.....	238.5	15,150	26.2	37.3	63.5
1986.....	240.7	14,368	25.1	34.6	59.7
1987.....	242.8	15,744	28.4	36.4	64.8
1988.....	245.0	14,628	29.3	30.4	59.7
1989.....	247.3	15,485	34.2	28.4	62.6
1990.....	249.9	16,349	37.6	27.8	65.4
1991.....	252.7	16,363	37.5	27.3	64.8
1992.....	255.5	16,106	37.7	25.3	63.0
1993.....	258.2	20,334	40.6	38.2	78.8
1994.....	260.7	19,309	40.1	34.0	74.1
1995.....	263.0	16,484	37.2	25.5	62.7
1996.....	265.3	16,474	36.1	26.0	62.1
1997.....	268.2	17,131	36.7	27.2	63.9

(1) Data include U.S. commercial landings and imports of both edible and nonedible (industrial) fishery products on a round weight basis. "Total supply" is not adjusted for beginning and ending stocks, defense purchases, or exports.

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD,
BY REGION AND COUNTRY, 1993-95 AVERAGE

Region and Country	Estimated live weight equivalent		Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds		Kilograms	Pounds
North America:			Europe - Continued:		
Canada.....	23.2	51.1	Bulgaria.....	2.8	6.2
Greenland.....	82.0	180.8	Croatia.....	2.5	5.5
St. Pierre and Miquelon.....	31.2	68.8	Czech Republic.....	4.8	10.6
United States.....	21.9	48.3	Denmark.....	20.0	44.1
			Estonia.....	33.9	74.7
			Faeroe Island.....	86.4	190.5
			Finland.....	33.0	72.8
			France.....	27.1	59.7
			Georgia.....	2.1	4.6
			Germany.....	12.7	28.0
			Greece.....	25.0	55.1
			Hungary.....	4.0	8.8
			Iceland.....	91.2	201.1
			Ireland.....	19.2	42.3
			Italy.....	21.6	47.6
			Kazakhstan.....	2.7	6.0
			Kyrgyzstan.....	0.1	0.2
			Latvia.....	36.6	80.7
			Lithuania.....	20.1	44.3
			Macedonia.....	2.9	6.4
			Malta.....	22.1	48.7
			Moldova.....	2.6	5.7
			Netherlands.....	14.0	30.9
			Norway.....	47.5	104.7
			Poland.....	14.2	31.3
			Portugal.....	58.8	129.6
			Romania.....	1.8	4.0
			Russian Federation.....	14.6	32.2
			Slovakia.....	6.6	14.6
			Slovenia.....	5.7	12.6
			Spain.....	42.7	94.1
			Sweden.....	28.5	62.8
			Switzerland.....	13.1	28.9
			Tajikistan.....	0.3	0.7
			Turkmenistan.....	3.6	7.9
			Ukraine.....	4.4	9.7
			United Kingdom.....	19.1	42.1
			Uzbekistan.....	0.8	1.8
			Yugoslavia.....	0.7	1.5
Caribbean:			Near East:		
Antigua.....	28.2	62.2	Afghanistan.....	0.1	0.2
Aruba.....	9.1	20.1	Bahrain.....	16.8	37.0
Bahamas.....	23.7	52.2	Cyprus.....	18.2	40.1
Barbados.....	27.1	59.7	Egypt.....	7.3	16.1
Bermuda.....	38.8	85.5	Iran.....	5.2	11.5
Cayman Islands.....	31.4	69.2	Iraq.....	0.9	2.0
Cuba.....	11.4	25.1	Israel.....	19.8	43.7
Dominica.....	27.0	59.5	Jordan.....	3.7	8.2
Dominican Republic.....	7.2	15.9	Kuwait.....	11.4	25.1
Grenada.....	40.1	88.4	Lebanon.....	4.1	9.0
Guadeloupe.....	41.5	91.5	Libya.....	6.6	14.6
Haiti.....	2.3	5.1	Oman.....	22.1	48.7
Jamaica.....	16.1	35.5	Qatar.....	18.4	40.6
Martinique.....	48.4	106.7	Saudi Arabia.....	6.0	13.2
Netherland Antilles.....	21.4	47.2	Sudan.....	1.7	3.7
Saint Lucia.....	21.4	47.2	Syria.....	0.8	1.8
St. Vincent.....	16.6	36.6	Turkey.....	8.4	18.5
Trinidad-Tobago.....	8.3	18.3	United Arab Emirates.....	24.5	54.0
Turks & Caicos.....	35.8	78.9	Yemen Republic.....	6.1	13.4
Latin America:					
Argentina.....	10.1	22.3			
Belize.....	6.8	15.0			
Bolivia.....	1.5	3.3			
Brazil.....	6.4	14.1			
Chile.....	28.4	62.6			
Colombia.....	3.9	8.6			
Costa Rica.....	6.0	13.2			
Ecuador.....	7.2	15.9			
El Salvador.....	2.3	5.1			
French Guiana.....	33.7	74.3			
Guatemala.....	1.1	2.4			
Guyana.....	42.1	92.8			
Honduras.....	1.5	3.3			
Mexico.....	11.0	24.3			
Nicaragua.....	1.4	3.1			
Panama.....	16.4	36.2			
Paraguay.....	3.8	8.4			
Peru.....	23.8	52.5			
Suriname.....	19.2	42.3			
Uruguay.....	8.2	18.1			
Venezuela.....	17.6	38.8			
Europe:					
Albania.....	0.9	2.0			
Armenia.....	1.3	2.9			
Austria.....	10.4	22.9			
Azerbaijan.....	2.2	4.9			
Belarus.....	1.1	2.4			
Belgium and Luxembourg.....	19.2	42.3			
Bosnia-Herzegovina.....	1.2	2.6			

See note at end of table.

(Continued on next page)

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD,
BY REGION AND COUNTRY, 1993-95 AVERAGE

Region and Country	Estimated live weight equivalent		Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds		Kilograms	Pounds
Far East:			Africa - Continued:		
Bangladesh.....	9.1	20.1	Ivory Coast.....	12.2	26.9
Brunei.....	26.5	58.4	Kenya.....	5.9	13.0
Burma.....	15.9	35.1	Lesotho.....	2.7	6.0
Cambodia.....	8.5	18.7	Liberia.....	4.5	9.9
China.....	19.1	42.1	Madagascar.....	6.5	14.3
Hong Kong.....	56.8	125.2	Malawi.....	6.3	13.9
India.....	4.4	9.7	Mali.....	8.4	18.5
Indonesia.....	17.1	37.7	Mauritania.....	17.4	38.4
Japan.....	69.9	154.1	Mauritius.....	27.1	59.7
Laos.....	6.6	14.6	Morocco.....	8.1	17.9
Macao.....	38.1	84.0	Mozambique.....	1.9	4.2
Maldives.....	139.8	308.2	Namibia.....	11.2	24.7
Malaysia.....	54.5	60.6	Niger.....	0.5	1.1
Mongolia.....	0.7	1.5	Nigeria.....	5.8	12.8
Nepal.....	0.8	1.8	Reunion.....	27.3	60.2
North Korea.....	46.0	101.4	Rwanda.....	0.7	1.5
Pakistan.....	2.1	4.6	Sao Tome.....	23.6	52.0
Philippines.....	33.8	74.5	Senegal.....	27.8	61.3
Singapore.....	31.8	70.1	Seychelles.....	59.2	130.5
South Korea.....	50.7	111.8	Sierra Leone.....	14.9	32.8
Sri Lanka.....	18.9	41.7	Somalia.....	1.3	2.9
Taiwan.....	38.2	84.2	South Africa.....	6.8	15.0
Thailand.....	25.9	57.1	St. Helena.....	69.7	153.7
Vietnam.....	13.4	29.5	Swaziland.....	0.2	0.4
			Tanzania.....	10.7	23.6
			Togo.....	12.0	26.5
			Tunisia.....	9.0	19.8
			Uganda.....	10.2	22.5
			Zambia.....	9.0	19.8
			Zimbabwe.....	3.2	7.1
Africa:			Oceania:		
Algeria.....	4.2	9.3	Australia.....	19.2	42.3
Angola.....	8.6	19.0	Cook Island.....	61.6	135.8
Benin.....	10.6	23.4	Fiji.....	33.4	73.6
Botswana.....	5.6	12.3	French Polynesia.....	37.6	82.9
Burkina.....	1.3	2.9	Kiribati.....	73.3	161.6
Burundi.....	3.7	8.2	New Caledonia.....	19.9	43.9
Cameroon.....	8.9	19.6	New Zealand.....	22.2	48.9
Cape Verde.....	17.4	38.4	Papua New Guinea.....	13.2	29.1
Central African Rep...	4.4	9.7	Solomon Islands.....	33.5	73.9
Chad.....	6.3	13.9	Tonga.....	25.8	56.9
Comoros.....	22.7	50.0	Vanuatu.....	24.8	54.7
Congo (Brazzaville)...	25.9	57.1	Western Samoa.....	45.7	100.8
Congo (Kinshasa).....	6.7	14.8			
Djibouti.....	1.8	4.0			
Equatorial Guinea.....	22.8	50.3			
Eritrea.....	0.8	1.8			
Ethiopia.....	0.1	0.2			
Gabon.....	37.0	81.6			
Gambia.....	17.9	39.5			
Ghana.....	21.1	46.5			
Guinea.....	9.9	21.8			
Guinea-Bissau.....	5.0	11.0			
			World.....	14.5	32.0

Note:--Data for most countries are tentative. Aquatic plants are included where applicable.

Source:--Food and Agriculture Organization of the United Nations (FAO)

PRICES

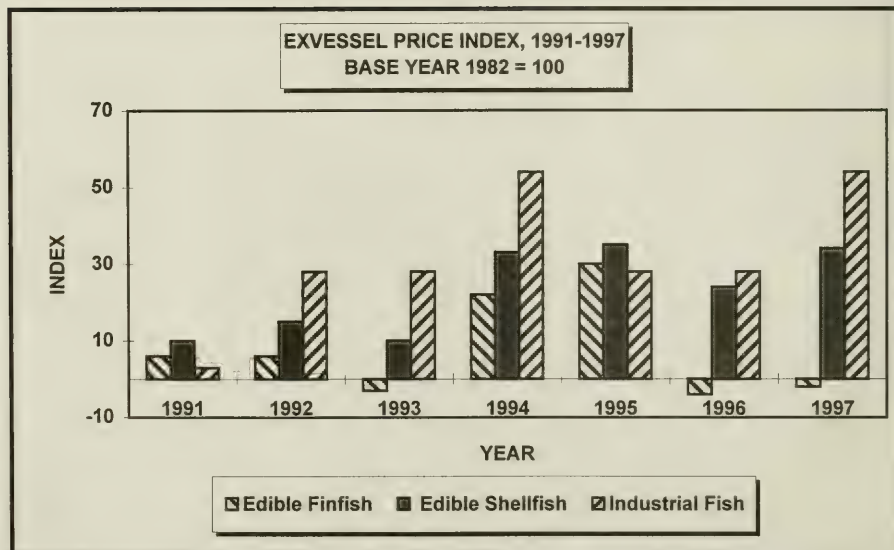
The Exvessel Price table is an index of changes in the relative dockside value of fish and shellfish sold by fishing vessels. The table indexes the average annual exvessel value (price per pound) received for each species or group to the average price per pound received for the same species or group in the base year 1982.

The exvessel price for each year was obtained by dividing total value for each species or group by its total quantity as reported in the U. S. commercial landings tables on pages 1 thru 4. The index for each species or group was obtained by multiplying the current annual price by the total quantity caught in

1982 (the base year). That number was then divided by the 1982 value to obtain the final index:

$$\frac{(100 \times \text{Current price} \times \text{1982 quantity})}{\text{1982 Annual value}} = \text{Index}$$

Each index number measures price changes from the 1982 reference period when the index equaled 100. A species of fish that sold for \$0.75 a pound in 1986 and a \$1.00 a pound in 1982 would have an index of 75 in 1986. In 1997, if the price of the same species increased to \$1.07, the index in 1997 would be 107.



INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY YEARS, 1991-97
(1982=100)

Species	1991 (1)	1992 (1)	1993	1994	1995	1996	1997
Groundfish, et al:							
Cod.....	106	105	105	92	77	76	84
Haddock.....	227	219	277	287	277	239	218
Pollock:							
Atlantic.....	255	297	299	365	412	311	255
Alaska.....	149	194	194	212	161	160	170
Flounders.....	97	60	61	80	96	91	63
Total groundfish, et al...	122	108	115	125	125	115	100
Halibut.....	175	91	115	171	173	199	195
Sea herring.....	86	86	63	86	126	137	69
Salmon:..							
Chinook.....	101	112	81	76	76	63	70
Chum.....	73	112	95	58	66	36	49
Pink.....	57	69	59	73	67	38	52
Sockeye.....	88	136	80	101	100	94	103
Coho.....	72	84	74	76	54	48	70
Total salmon.....	82	113	78	85	82	69	81
Swordfish.....	102	111	92	107	104	103	91
Tuna:							
Albacore.....	114	147	132	125	120	130	124
Bluefin.....	1,158	477	766	666	954	229	353
Skipjack.....	83	72	85	127	83	82	93
Yellowfin.....	116	96	112	205	283	113	126
Total tuna.....	126	97	117	181	212	105	118
Total edible finfish.....	106	106	97	122	130	96	98
Clams:							
Hard.....	142	135	113	105	113	148	163
Ocean quahog.....	124	124	128	129	136	142	145
Soft.....	192	222	233	248	250	205	236
Surf.....	84	83	88	118	118	115	116
Total clams.....	132	133	126	133	138	147	159
Crabs:							
Blue.....	131	183	201	260	284	266	286
Dungeness.....	159	124	95	145	176	143	210
King.....	99	139	127	146	104	100	94
Snow.....	53	60	78	144	237	130	76
Total crabs.....	99	124	123	166	182	144	138
American lobster.....	113	125	117	128	141	147	138
Oysters.....	219	225	183	175	179	214	199
Scallops:							
Bay.....	157	150	161	49	55	69	111
Calico.....	(2)	(2)	(2)	94	124	-	217
Sea.....	110	132	159	138	138	153	179
Total scallops.....	135	118	141	126	131	129	178
Shrimp:							
Gulf and South Atlantic...	87	86	80	110	99	88	106
Other.....	130	113	128	142	179	148	134
Total shrimp.....	89	88	82	111	103	91	107
Total edible shellfish.....	110	115	110	138	135	124	134
Total edible fish and shellfish.....	108	111	104	131	133	111	117
Industrial fish,							
Menhaden.....	103	128	128	154	128	128	154
All fish and shellfish.....	108	112	105	132	132	112	119

(1) Revised.

(2) Confidential data.

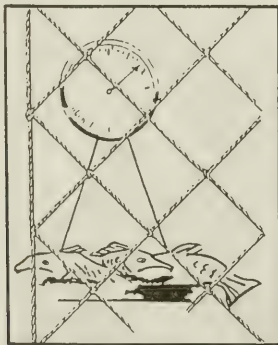
The value added table reflects changes in the value of fishery products from year to year, using measures such as mark-up, value added as a percent of mark-up, and sales of fishery products in each sector (1). Using a model developed for Fisheries of the U.S. in 1987, the value added table is updated every year to reflect changes in the annual quantity and value of landings, processed products, and imports and exports of several species. These annual updates allow partial re-estimation of the mark-ups, value added, and sales of each sector.

Complete re-estimation of the annual mark-ups and value added requires secondary information such as average revenues and costs of operation for businesses involved in the processing, wholesaling or retailing of fishery products. The revenue and cost data needed to estimate mark-ups in each sector are only published once every five years. In addition, there is a two-year lag between the collection and publication of these data. Thus, the margins estimated in the value added tables from 1992 through 1996 are based on 1990 financial data that became available in 1992.

The 1997 value added table incorporates newly available 1995 financial data, as well as 1997 fisheries data, to re-estimate the mark-up of fishery products at each market level. Therefore, the estimated 1997 mark-ups and value added in each sector reflect the annual change in fisheries activity as well as changes in the economy as a whole since 1990.

To differentiate between the effects of changes in the economy from changes in fishing activity, the 1997 model was estimated using both the old 1990 and the new 1995 financial data. Between 1996 and 1997, the estimated total U.S. value added activity increased 16%. Half of this increase is attributable to the updated financial data. Also between 1996 and 1997, estimated consumer expenditures increased by almost 13%; of this, less than 3% is due to the updated financial data. The table presented on the following page incorporates the updates from *both* the financial data as well as the new, 1997 fisheries data. The 1995 financial data will be used in the model until new data are available in 2002.

(1) See footnotes following the value added table for definitions of these terms.



SUMMARY OF 1997 VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR COMMERCIAL MARINE FISHERY PRODUCTS IN THE UNITED STATES (1)

Sector of activity	Purchase of fishery inputs	Mark-up of fishery inputs	Total mark-up within sector	Value added as percent of total	Value added within sector	Value of sales by sector	Value added of GNP contribution	Offshore fleet & exported fishery products
	Thousand dollars	Percentage of fishery inputs	Thousand dollars	Percentage	Thousand dollars	Thousand dollars	Percentage of GNP contribution	Thousand dollars
Domestic harvest:								
Edible.....	-	100.0	\$3,298,566	62.8	\$2,071,896	\$3,298,566	8.5	-
Industrial.....	-	100.0	\$112,050	60.2	\$67,425	\$112,050	0.3	-
Harvest not landed in U.S....	-	100.0	\$220,382	67.6	\$148,954	\$220,382	0.6	\$220,382
Imports, unprocessed	\$3,483,430	-	-	-	-	\$3,483,430	-	-
Exports, unprocessed	-	-	-	-	-	-	-	\$905,186
Primary wholesale and processing.....	\$5,988,860	88.5	\$5,300,619	60.5	\$3,205,700	\$11,289,480	13.1	-
Imports, processed..	\$4,428,476	-	-	-	-	\$4,428,476	-	-
Exports, processed..	-	-	-	-	-	-	-	\$1,867,991
Secondary wholesale and processing:								
Edible.....	\$13,651,286	62.7	\$8,560,735	28.0	\$2,400,733	\$22,212,021	9.8	-
Industrial.....	\$198,678	62.7	\$124,591	28.0	\$34,940	\$323,270	0.1	-
Retail trade from food service.....	\$11,083,095	182.4	\$20,215,242	69.8	\$14,103,481	\$31,299,338	57.7	-
Retail trade from stores.....	\$11,128,925	33.4	\$3,719,541	64.2	\$2,389,118	\$14,848,466	9.8	-
TOTAL U.S. VALUE ADDED ACTIVITY:					\$24,422,248		100.0	
CONSUMERS EXPENDITURES (& WHOLESALE PURCHASES OF INDUSTRIAL PRODUCTS) FOR FISHERY PRODUCTS:								
						\$46,471,074		

(1) Includes industrial products and landings by U.S.-flag vessels at U.S. ports, foreign ports, and transfers to internal water processing vessels.

Note.-- The table reports the contribution of commercial marine fishing to the national economy as measured by margin, value added, and sales. These measures are consistent with the Bureau of the Census definitions.

Margin or mark-up is the difference between the price paid for the product by the consumer or wholesale purchaser and the dockside or wholesale value for an equivalent weight of the product. (It is assumed that fishermen catch their fish without paying purchase price and therefore the entire dockside or exvessel price is considered margin.) Value added is a measure of the factors added to the total worth of a product at each stage of the production process. It is defined as the gross receipts of firms minus the cost of purchased goods and services needed to fabricate the product. Gross National Products (GNP) is equal to the sum of the value added of all economic entities in the economy. Value added within a sector represents that sector's contribution to GNP.

Value added includes wages, salaries, interest, depreciation, rent, taxes and profit. Consumer expenditures are the final retail value of seafood products sold through stores and food service outlets plus secondary wholesale and processing of industrial products.

EMPLOYMENT, CRAFT, AND PLANTS

ESTIMATED NUMBER OF COMMERCIAL FISHING VESSELS (1)
AND FISHING BOATS (2) BY REGION AND STATE, 1995 - 1996

REGIONS	1995			1996		
	VESSELS	BOATS	TOTAL	VESSELS	BOATS	TOTAL
Northeast Fisheries:						
Connecticut.....	149	392	541	336	420	756
Delaware.....	32	555	587	23	512	535
Maine.....	1,798	5,439	7,237	1,773	5,454	7,227
Maryland (3).....	33	-	33	33	NA	33
Massachusetts.....	805	4,490	5,295	790	4,525	5,315
New Hampshire.....	139	467	606	132	474	606
New Jersey.....	423	1,282	1,705	360	1,167	1,527
New York (4).....	698	2,924	3,622	2,936	693	3,629
Rhode Island.....	291	2,863	3,154	299	2,538	2,837
Virginia (3).....	122	2,138	2,260	122	NA	122
South Atlantic and Gulf Fisheries:						
North Carolina.....	1,034	9,361	10,395	814	NA	814
South Carolina.....	530	1,022	1,552	501	NA	501
Georgia.....	305	NA	305	349	NA	349
Florida.....	2,311	8,919	11,230	2,531	9,425	11,956
Alabama.....	378	720	1,098	378	720	1,098
Mississippi.....	438	874	1,312	438	874	1,312
Louisiana.....	2,805	12,969	15,774	2,839	11,883	14,722
Texas.....	1,902	1,969	3,871	-	NA	0
West Coast Fisheries:						
Washington.....	1,176	630	1,806	1,909	1,292	3,201
Oregon.....	927	378	1,305	860	389	1,249
Alaska.....	7,264	9,013	16,277	7,044	9,295	16,339
California.....	1,759	1,570	3,329	1,767	1,483	3,250
Hawaii.....	2,583	NA	2,583	2,636	NA	2,636
Great Lakes Fisheries: (5)						
Illinois.....	5	-	5	5	NA	5
Indiana.....	NA	NA	NA	NA	NA	NA
Michigan.....	61	75	136	61	75	136
Minnesota.....	2	29	31	1	23	24
New York.....	3	16	19	3	17	20
Ohio.....	33	18	51	30	14	44
Pennsylvania.....	NA	NA	NA	1	2	3
Wisconsin.....	93	40	133	106	42	148

(1) Vessels are documented craft greater than 5 net registered tons.

(2) Boats are craft less than 5 net registered tons.

(3) Only Federal collected data are available. Inshore data not available.

(4) Includes vessels and boats in the Great Lakes.

(5) Commercial fishing fleet sizes for the Great Lakes states represent only the number of licenses issued by the state; therefore, may not be an accurate total. Tribal data are not included in this table.

NA -- Data not available separately.

EMPLOYMENT, CRAFT, AND PLANTS

121

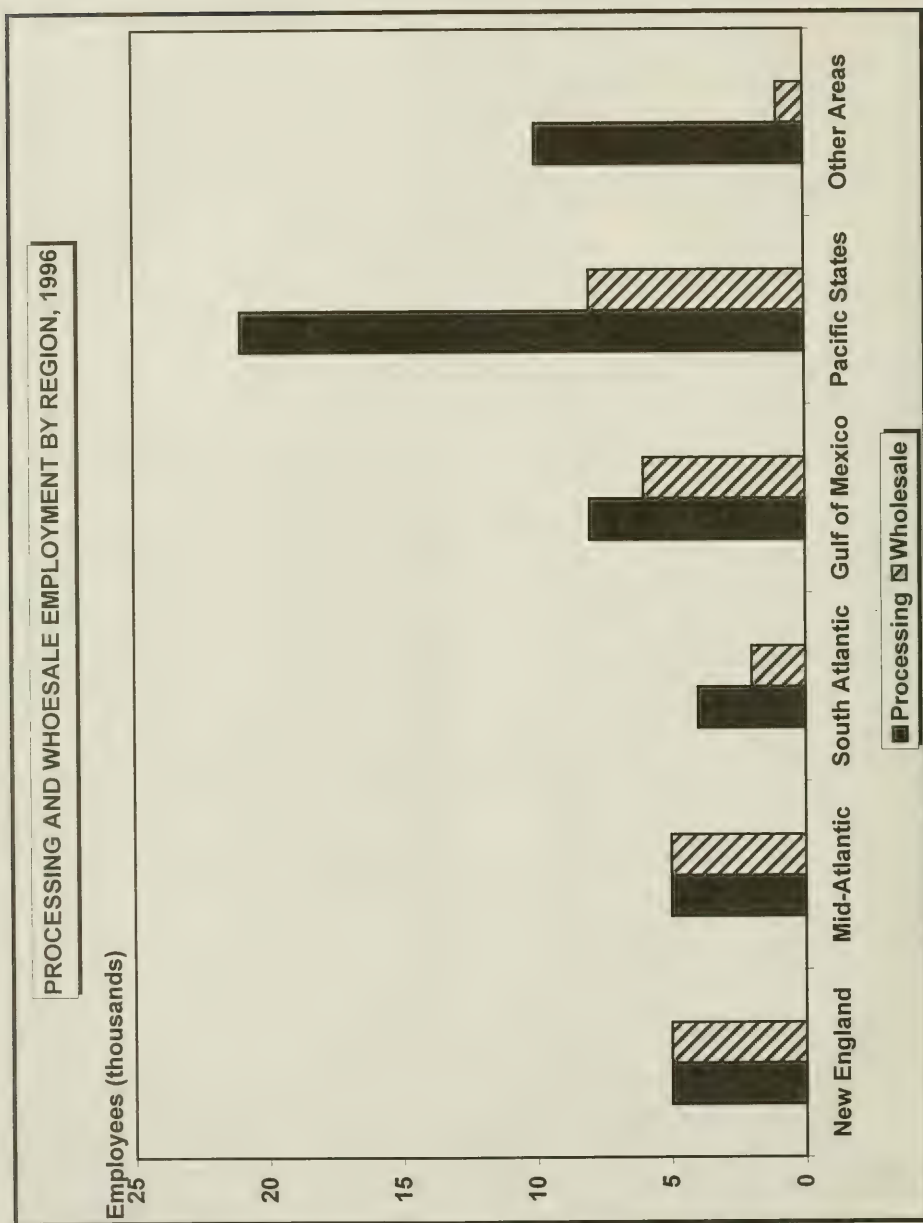
PROCESSORS AND WHOLESALERS: PLANTS, AND EMPLOYMENT, 1996

State and Area	Processing				Wholesale (1)				Total			
	Plants	Employment average			Plants	Employment average			Plants	Employment average		
		Season	Year	Year		Season	Year	Year				
-----Number-----												
New England:												
Maine.....	55	1,804	1,792		212	(2)		1,561		267	(3)	3,353
New Hampshire.....	9	280	280		28	(2)		175		37	(3)	455
Massachusetts.....	81	2,399	2,397		293	(2)		2,567		374	(3)	4,964
Rhode Island.....	20	455	455		62	(2)		338		82	(3)	793
Connecticut.....	5	62	62		39	(2)		277		44	(3)	339
Total.....	170	5,000	4,986		634	(2)		4,918		804	(3)	9,904
Mid-Atlantic:												
New York.....	12	232	232		327	(2)		2,390		339	(3)	2,622
New Jersey.....	16	1,223	1,219		134	(2)		871		150	(3)	2,090
Pennsylvania.....	5	1,240	1,240		63	(2)		777		68	(3)	2,017
Delaware.....	(4)	(4)	(4)		(4)	(2)		(4)		(4)	(3)	(4)
District of Columbia.....	-	-	-		7	(2)		73		7	(3)	73
Maryland.....	37	1,291	1,223		89	(2)		666		126	(3)	1,889
Virginia.....	47	1,523	1,482		82	(2)		633		129	(3)	2,115
Total.....	117	5,509	5,396		702	(2)		5,410		819	(3)	10,806
South Atlantic:												
North Carolina.....	47	1,202	1,165		98	(2)		899		145	(3)	2,064
South Carolina.....	11	165	158		26	(2)		337		37	(3)	337
Georgia.....	10	1,143	1,141		56	(2)		508		66	(3)	1,649
Florida, East Coast.....	31	1,082	1,082		(5)	(2)		(5)		31	(3)	1,082
Total.....	99	3,592	3,546		180	(2)		1,586		279	(3)	5,132
Gulf:												
Florida, West Coast.....	86	1,669	1,661		387	(2)		3,051		473	(3)	4,712
Alabama.....	87	1,549	1,461		57	(2)		964		144	(3)	2,425
Mississippi.....	31	940	937		33	(2)		205		64	(3)	1,142
Louisiana.....	146	3,527	3,135		165	(2)		1,145		311	(3)	4,280
Texas.....	25	1,312	1,302		111	(2)		1,082		136	(3)	2,384
Total.....	375	8,997	8,496		753	(2)		6,447		1,128	(3)	14,943
Pacific:												
Alaska.....	207	10,230	7,623		219	(2)		348		426	(3)	7,971
Washington.....	98	5,470	4,302		192	(2)		1,883		290	(3)	6,185
Oregon.....	41	1,731	1,723		24	(2)		401		65	(3)	2,124
California.....	145	7,746	7,339		412	(2)		5,132		557	(3)	12,471
Total.....	491	25,177	20,987		847	(2)		7,764		1,338	(3)	28,751
Inland States,												
Total.....	35	1,390	1,389		301	(2)		3,043		336	(3)	4,432
Other Areas or States: (6), Total..	29	10,561	10,560		55	(2)		592		84	(3)	11,152
Grand Total.....	1,316	60,226	55,360		3,472	(2)		29,760		4,788	(3)	85,320

(1) Data are based on Standard Industrial Classification 5146 as reported to the Bureau of Labor Statistics.

(2) Not reported. (3) Can not be calculated. (4) Included with Inland States. (5) Included with Florida, West Coast.

(6) Includes American Samoa, Hawaii, and Puerto Rico.



FISHERY PRODUCTS AND ESTABLISHMENTS INSPECTED IN CALENDAR YEAR, 1997

Region	Edible fishery products						
	Establishment		Amount inspected				
	(1)						
	SIFE	In-plant	Grade A	PUFI	No mark	Lot	Total
	(2)	(3)	(4)	(4)	(5)	(6)	
	<u>-Average number-</u>		<u>-----Thousand pounds-----</u>				
Northeast.....	0	118	28,253	156,451	80,160	96,451	361,315
Southeast.....	0	135	12,737	100,230	45,049	94,578	252,594
West.....	16	65	23,805	116,750	54,683	119,670	314,908
Total, 1997.	16	318	64,795	373,431	179,891	310,699	928,816
Total, 1996.	16	319	72,271	680,041	185,615	343,340	1,201,268

(1) These establishments are inspected under contract and certified as meeting U.S. Department of Commerce (USDC) regulations for construction and maintenance of facilities and equipment processing techniques, and employment practices.

(2) Fish processing establishments approved for sanitation under the Sanitary Inspected Fish Establishment service (SIFE). Products are not processed under inspection.

(3) Sanitarily inspected fish establishments processing fishery products under USDC inspection As of December 1996, 106 of these establishments were in the Hazard Analysis Critical Control Point (HACCP) Program.

(4) Products processed under USDC inspection in inspected establishments and labeled with USDC inspection mark as "Processed Under Federal Inspection" (PUFI) and/or "U.S. Grade A."

(5) Products processed under inspection in inspected establishments but bearing no USDC inspection mark.

(6) Lot inspected and marked products checked for quality and condition at the time of examination and located in processing plants, warehouses, cold storage facilities, or terminal markets anywhere in the United States.

Note:--Table may not add due to rounding.

Source:--NMFS, Seafood Inspection Division, F/SF6.

THE MAGNUSON-STEVENS FISHERY CONSERVATION AND MANAGEMENT ACT

The Magnuson-Stevens Fishery Conservation and Management Act, Public Law 94-265 as amended (Magnuson-Stevens Act), provides for the conservation and management of fishery resources within the U.S. Exclusive Economic Zone (EEZ). It also provides for fishery management authority over continental shelf resources and anadromous species beyond the EEZ, except when they are found within a foreign nation's territorial sea or fishery conservation zone (or equivalent), to the extent that such sea or zone is recognized by the United States.

The EEZ extends from the seaward boundary of each of the coastal States (generally 3 nautical miles from shore for all but two States) to 200 nautical miles from shore. The seaward boundaries of Texas, Puerto Rico, and the Gulf coast of Florida are 3 marine leagues (9 nautical miles).

GOVERNING INTERNATIONAL FISHERY AGREEMENTS

Under the Magnuson-Stevens Act, the Secretary of State, in cooperation with the Secretary of Commerce, negotiates Governing International Fishery Agreements (GIFAs) with foreign nations requesting to fish within the EEZ. After a GIFA is signed, it is transmitted by the President to the Congress for ratification.

FOREIGN FISHING PERMITS

Title II of the Magnuson-Stevens Act governs foreign fishing in the EEZ. The process applied to foreign fishing has been described in prior issues of this publication. As U.S. fishing capacity grew, foreign participation in directed fisheries, as well as in foreign joint ventures in which U.S. vessels delivered U.S. harvested fish to permitted foreign vessels in the EEZ diminished until, in 1991, foreign vessels no longer were permitted to conduct any harvesting or processing operations in the EEZ. This marked the achievement of one of the objectives of the Magnuson-Stevens Act, that is, the development of the U.S. fishing industry to take what were in 1976 underutilized species, and the

displacement of the foreign fishing effort in the EEZ by 1991.

As a result of the above, there has been no total allowable level of foreign fishing since 1991, although 25,000 mt of Atlantic mackerel and 40,000 mt of Atlantic herring were available for joint venture fishing in 1997. However, no joint venture permits were issued in 1997 because no foreign nations elected to participate in joint venture fishing in 1997. NMFS continues to maintain certain regulations pertaining to foreign fishing, such as the foreign fishing fee schedule, should there be a situation in the future in which allowing limited foreign fishing in an underutilized fishery would be of advantage to the U.S. fishing industry.

FMPs and PMPs

Under the Magnuson-Stevens Act, eight Regional Fishery Management Councils are charged with preparing Fishery Management Plans (FMPs) for the fisheries needing management within their areas of authority. After the Councils prepare FMPs that cover domestic and foreign fishing efforts, the FMPs are submitted to the Secretary of Commerce (Secretary) for approval and implementation. The Department, through NMFS agents and the U.S. Coast Guard, is responsible for enforcing the law and regulations.

The Secretary is empowered to prepare FMPs in the Atlantic and Gulf of Mexico for highly migratory species. Where no FMP exists, Preliminary Fishery Management Plans (PMPs), which only cover foreign fishing efforts, are prepared by the Secretary for each fishery for which a foreign nation requests a permit. The Secretary is also empowered to produce an FMP for any fishery that a Council has not duly produced. In this latter case, the Secretary's FMP covers domestic and foreign fishing.

As of December 31, 1997, three Preliminary Fishery Management Plans (PMPs) were in effect, some of which have been amended since first being implemented.

THE MAGNUSON-STEVENS FISHERY CONSERVATION AND MANAGEMENT ACT

125

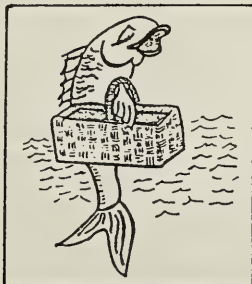
The Atlantic swordfish, Atlantic sharks, and Atlantic billfish fisheries are currently being managed by the Secretary under the Magnuson-Stevens Act and the Western Atlantic bluefin tuna fishery is managed under the Atlantic Tunas Convention Act.

FISHERY MANAGEMENT PLANS (FMPs)

Under section 304 of the Magnuson-Stevens Act, all Council-prepared FMPs must be reviewed for approval by the Secretary. After FMPs have been approved under section 304 of the Magnuson-Stevens Act, they are implemented by Federal regulations, under section 305 of the Act. As of December 31, 1997, there are 39 FMPs in place. Of these, three are Secretarial FMPs for Atlantic highly migratory species. The 36 FMPs the Councils prepared are listed below. The FMPs are amended by the Councils and the amendments are submitted for approval under the same Secretarial review process as new FMPs. Most of the FMPs listed have been amended since initial implementation. Those marked with a double asterisk (**) were amended in 1997.

Northeast Multispecies (**)
American Lobster (**)
Atlantic Bluefish
Atlantic Coast Red Drum
Atlantic Mackerel, Squid, and Butterfish (**)
Atlantic Salmon
Atlantic Sea Scallops (**)
Atlantic Surf Clams and Ocean Quahogs (**)
Summer Flounder, Scup, and Black Sea Bass (**)
Gulf and South Atlantic Spiny Lobster
Caribbean Reef Fish
Gulf of Mexico Reef Fish (**)
Gulf of Mexico Corals
South Atlantic Corals
South Atlantic Golden Crab
Caribbean Coral Reef Resources
Gulf of Mexico Shrimp (**)
Gulf of Mexico Stone Crab
Gulf of Mexico Red Drum
Coastal Migratory Pelagics
Caribbean Queen Conch
Caribbean Spiny Lobster
South Atlantic Snapper/Grouper
South Atlantic Shrimp (**)
Northern Anchovy
King and Tanner Crab (**)
Commercial and Recreational Salmon (**)
High Seas Salmon
Pacific Coast Groundfish (**)
Gulf of Alaska Groundfish (**)
Bering Sea and Aleutian Islands Groundfish (**)
Alaska Scallops (**)
Western Pacific Crustaceans
Western Pacific Precious Corals
Western Pacific Bottomfish and Seamount Groundfish
Western Pacific Pelagics

In 1997, NMFS published 862 documents in the Federal Register which affected domestic fishing issues and either proposed or implemented fishery management actions (i.e., FMP and amendments). The documents published include hearing, meeting, correction, and proposed and final rule documents.



THE MAGNUSON-STEVENS FISHERY CONSERVATION AND MANAGEMENT ACT

REGIONAL FISHERY MANAGEMENT COUNCILS

<u>Council</u>	<u>States</u>	<u>Telephone Number</u>	<u>Executive Director and Address</u>
NEW ENGLAND	(Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut)	781-231-0422 FAX: 565-8937	Paul J. Howard Suntaug Office Park 5 Broadway (Rt. 1) Saugus, MA 01906
MID-ATLANTIC	(New York, New Jersey, Delaware, Pennsylvania, Maryland, Virginia, and North Carolina)	302-674-2331 FAX: 674-5399	Daniel T. Furlong Federal Bldg., Rm. 211 300 South New St. Dover, DE 19901
SOUTH ATLANTIC	(North Carolina, South Carolina, Georgia and Florida)	803-571-4366 FAX: 769-4520	Robert K. Mahood 1 Southpark Circle Suite 306 Charleston, SC 29407
GULF OF MEXICO	(Texas, Louisiana Mississippi, Alabama, and Florida)	813-228-2815 FAX: 225-7015	Wayne E. Swingle 3018 U.S. Highway 301 North, Suite 1000 Tampa, FL 33619
CARIBBEAN	(Virginia Islands and the Commonwealth of Puerto Rico)	787-766-5926 FAX: 766-6239	Miquel A. Rolon 268 Ave. Munoz Rivera Suite 1108 San Juan, PR 00918
PACIFIC	(California, Washington, Oregon, and Idaho)	503-326-6352 FAX: 326-6831	Lawrence D. Six 2130 S.W. 5th Ave. Suite 224 Portland, OR 97201
NORTH PACIFIC	(Alaska, Washington, and Oregon)	907-271-2809 FAX: 271-2817	Clarence G. Pautzke 605 W. 4th Ave. Room 306 Anchorage, AK 99501
WESTERN PACIFIC	(Hawaii, American Samoa, Guam, and the Northern Marianas Islands)	808-522-8220 FAX: 522-8226	Kitty M. Simonds 1164 Bishop St. Room 1405 Honolulu, HI 96813

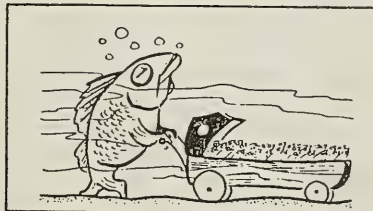
NOTE:--Massachusetts, Pennsylvania, and Virginia are "Commonwealth States."

**OPTIMUM YIELD (OY) AND OTHER SPECIFICATIONS, INCLUDING AMOUNTS AVAILABLE FOR
JOINT VENTURE PROCESSING: NORTH ATLANTIC, BY SPECIES, 1997 (1)**

Item	Loligo squid	Illex squid	Atlantic mackerel	Butter- fish	Atlantic herring
-----Metric tons, round weight-----					
Maximum OY.....	(2) 36,000	(2) 30,000	(3)	(2) 16,000	(4) 89,000
ABC.....	(5) 21,000	(5) 19,000	(5) 1,178,000	(5) 7,200	89,220
Initial OY.....	21,000	19,000	90,000	5,900	89,220
DAH.....	21,000	19,000	(6) 90,000	5,900	89,220
DAP.....	21,000	19,000	50,000	5,900	49,220
JVP.....	0	0	25,000	0	40,000
TALFF.....	0	0	0	0	0

- (1) OY=Optimum Yield; ABC=Allowable Biological Catch; DAH=Domestic Annual Harvest; DAP=Domestic Annual Processing; JVP=Joint Venture Processing; and TALFF=Total Allowable Level of Foreign Fishing.
- (2) Maximum OY based on the Fishery Management Plan for Atlantic mackerel, squid and butterfish.
- (3) Not applicable based on the Fishery Management Plan for Atlantic mackerel, squid and butterfish.
- (4) Maximum OY based on the Preliminary Fishery Management Plan for Atlantic Herring.
- (5) Initial OY can increase to this amount.
- (6) Contains 15,000 metric tons projected recreational catch.

Source:--NMFS, Office of Sustainable Fisheries, F/SF; and NMFS, Northeast Region, F/NER.



GENERAL ADMINISTRATIVE INFORMATION

UNITED STATES DEPARTMENT OF COMMERCE

14th and Constitution Ave., NW
Washington, DC 20230

MAIL
ROUTING
CODE

TELEPHONE
NUMBER

--	Secretary of Commerce William Daley	202-482-2112
A	Under Secretary for Oceans and Atmospheric D. James Baker	202-482-3436

NATIONAL MARINE FISHERIES SERVICE

1315 East-West Highway
Silver Spring Metro Center #3 (SSMC)
Silver Spring, MD 20910

F	Assistant Administrator for Fisheries -- Rolland A. Schmitten	301-713-2239
	Deputy Assistant Administrator for Fisheries -- Andrew A. Rosenberg	301-713-2239
Fx1	Staff Office for Industry and Trade -- Linda Chaves	301-713-2379
Fx2	Staff Office for Intergovernmental and Recreational Fisheries -- Richard Schaefer	301-427-2401
Fx3	Equal Employment Opportunity -- Natalie Huff	301-713-2252
Fx4	Seafood Inspection Program -- Samuel W. McKeen	301-713-2351
F/EN	Office of Law Enforcement -- David McKinney	301-427-2300
F/EN1	Enforcement Operations Division	301-427-2300
F/EN11	Enforcement Programs Branch	301-427-2300
F/HC	Office of Habitat Conservation -- Joseph Blum	301-713-2325
F/HCx1	Chesapeake Bay Program Office	410-267-5660
F/HC1	Watershed Division	301-713-2325
F/HC2	Habitat Protection Division	301-713-2325
F/HC3	Habitat Restoration Division	301-713-0174
F/OMI	Office of Operations, Management & Information -- Steven Pennoyer (Acting)	301-713-2239
F/OMI1	Administrative & Budget Processes Division	301-713-2245
F/OMI2	Planning and Development Division	301-713-2252
F/OMI3	Information Management Division	301-713-2372

(CONTINUED)

UNITED STATES DEPARTMENT OF COMMERCE

Silver Spring, Md. 20910

**MAIL
ROUTING
CODE****TELEPHONE
NUMBER**

F/PR	Office of Protected Resources -- Hilda Diaz-Soltero	301-713-2332
F/PRx1	Marine Biodiversity Team	301-713-2319
F/PR1	Permits and Documentation Division	301-713-2289
F/PR2	Marine Mammal Conservation Division	301-713-2322
F/PR3	Endangered Species Division	301-713-1401
F/SF	Office of Sustainable Fisheries -- Gary Matlock	301-713-2334
F/A2SF	Highly Migratory Species Division	301-713-2347
F/SF2	Financial Services Division	301-713-2390
F/SF3	Domestic Fisheries Division	301-713-2341
F/SF4	International Fisheries Division	301-713-2376
F/SF5	Regulatory Services Division	301-713-2337
F/SF6	National Seafood Laboratory	601-769-8964
F/ST	Office of Science and Technology -- William Fox	301-713-2367
F/ST1	Fisheries Statistics & Economics Division	301-713-2328
F/ST2	Science and Technology Division	301-713-2372
F/ST21	Scientific Publications Unit	206-526-6107
F/ST3	International Science Coordination and Analysis Division	301-713-2288
LA11	Office of Congressional Affairs - Fisheries -- Peter Hill	301-713-2263
PAF	Office of Public Affairs - Fisheries -- Scott Smullen / Gordon Helms	301-713-2370
GCF	Office of General Counsel - Fisheries -- Margaret Hayes	301-713-2231

GENERAL ADMINISTRATIVE INFORMATION

NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES

<u>MAIL ROUTING CODE</u>		<u>TELEPHONE and FAX NUMBER</u>	<u>LOCATION</u>
F/NER	Northeast Region One Blackburn Drive Gloucester, MA 01930	978-281-9300 Fax-281-9371	Gloucester, MA
F/NEC3	Northeast Fisheries Science Center 166 Water St. - Rm. 312 Woods Hole, MA 02543	508-548-5123 Fax-548-5124	Woods Hole, MA
	Woods Hole Laboratory 166 Water St. Woods Hole, MA 02543	508-495-5123 Fax-495-2258	Woods Hole, MA
	Narragansett Laboratory 28 Tarwell Drive Narragansett, RI 02882	401-782-3200 Fax-782-3201	Narragansett, RI
	Milford Laboratory Milford, CT 06460	860-873-4200 FAX-873-4212	Milford, CT
	Sandy Hook Laboratory Building 74, McGruder Highlands, NJ 07732	732-872-3000 FAX-872-3088	Highlands, NJ
	Oxford Laboratory 904 S. Morris St. Oxford, MD 21654	410-226-5193 FAX-226-5925	Oxford, MD
F/NESC3	Natl. Systematics Laboratory, MRC153 10th & Constitution Ave., NW Washington, DC 20560	202-357-2550 FAX-357-2986	Washington, DC
F/SER	Southeast Region 9721 Executive Center Drive, N. St. Petersburg, FL 33702	727-570-5301 FAX-570-5300	St. Petersburg, FL
F/SEFSC	Southeast Fisheries Science Center, 75 Virginia Beach Dr. Miami, FL 33149	305-361-4284 FAX-361-4219	Miami, FL
F/SEC4	Miami Laboratory 75 Virginia Beach Dr. Miami, FL 33149	305-361-4225 FAX-361-4499	Miami, FL
F/SEC5	Mississippi Laboratories 3209 Frederick St., P.O. Drawer 120 Pascagoula, MS 39567	228-762-4591 FAX-769-9200	Pascagoula, MS
F/SEC6	Panama City Laboratory 3500 Delwood Beach Rd. Panama City, FL 32408	850-234-6541 FAX-235-3559	Panama City, FL
F/SEC7	Galveston Laboratory 4700 Avenue U Galveston, TX 77551	409-766-3500 FAX-766-3508	Galveston, TX

(Continued)

NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES

<u>MAIL ROUTING CODE</u>		<u>TELEPHONE and FAX NUMBER</u>	<u>LOCATION</u>
F/SEC8	Charleston Laboratory 219 Fort Johnson Rd. Charleston, SC 29412	803-762-8500 FAX-762-8700	Charleston, SC
F/SEC9	Beaufort Laboratory 101 Pivers Island Beaufort, NC 28516	919-728-3595 FAX-728-8784	Beaufort, NC
F/NWR	<i>Northwest Region</i> 7600 Sand Point Way, N.E. BIN C15700, Bldg. 1 Seattle, WA 98115	206-526-6150 FAX-526-6426	Seattle, WA
F/NWC	Northwest Fisheries Science Center West Bldg. - Rm. 363 2725 Montlake Boulevard, East Seattle, WA 98112	206-860-3200 FAX-860-3217	Seattle, WA
F/SW	<i>Southwest Region</i> 501 West Ocean Blvd., Suite 4200 Long Beach, CA 90802	562-980-4000 FAX-980-4018	Long Beach, CA
F/SWFSC	Southwest Fisheries Science Center 8604 La Jolla Shores Dr. P.O. Box 271 La Jolla, CA 92038	619-546-7000 FAX-546-5655	La Jolla, CA
F/SWC2	Honolulu Laboratory 2570 Dole St., P.O. Box 3830 Honolulu, HI 96812	808-983-5300 FAX-943-1248	Honolulu, HI
F/SWC3	Tiburon Laboratory 3150 Paradise Dr. Tiburon, CA 94920	415-435-3149 FAX-435-3675	Tiburon, CA
F/SWC4	Pacific Fisheries Environmental Grou 1352 Lighthouse Ave. Pacific Grove, CA 93950	408-648-8515 FAX-648-8440	Pacific Grove, CA
F/AKR	<i>Alaska Region</i> 709 West 9th Street, Room 453 P.O. Box 21668 Juneau, AK 99802	907-586-7221 FAX-586-7249	Juneau, AK
F/AKC	Alaska Fisheries Science Center, 7600 Sand Point Way, N.E. BIN C15700 - Bldg. #4 - Rm. 2149 Seattle, WA 98115	206-526-4000 FAX-526-4004	Seattle, WA
	Kodiak Investigations P.O. Box 1638 Kodiak, AK 99615	907-487-4961 FAX-487-5960	Kodiak, AK
F/AKC4	Auke Bay Laboratory 11305 Glacier Highway Auke Bay, AK 99801	907-789-6000 FAX-789-6094	Auke Bay, AK

NATIONAL MARINE FISHERIES SERVICE NATIONAL FISHERY STATISTICS OFFICES

<u>CITY</u>	<u>TELEPHONE NUMBER</u>	<u>NAME AND ADDRESS</u>
<u>NORTHEAST REGION</u>		
<u>NEW ENGLAND</u>		
Portland	207-780-3322 FAX: 780-3340	Robert C. Morrill / Scott McNamara, Marine Trade Center, Suite 212, Two Portland Fish Pier Portland, ME 04101
Rockland	207-594-5969 FAX: 596-7651	Peter P. Marckoon, Federal Bldg., 21 Limerock St., Rm. 217, P.O. Box 708, Rockland, ME 04841
Boston	617-223-8015 FAX: 223-8526 617-223-8012 FAX: 223-8526	Paul Sheahan, Statistics Office, 408 Atlantic Ave., Rm. 141, Boston, MA 02210 Jack French, Boston Market News, 408 Atlantic Ave., Rm. 141, Boston, MA 02210
(1) Gloucester	978-281-9304 FAX: 281-9161	Gregory R. Power, Fishery Inf. Section, One Blackburn Dr., Gloucester, MA 01930
Gloucester	978-281-9307 FAX: 281-9372	Kelly McGrath / Don Mason, Rm. 107, 1 Blackburn Dr. Gloucester, MA 01930
New Bedford	508-999-2452 FAX: 990-2506	Dennis E. Main, U.S. Custom House, 37 N. Second St. New Bedford, MA 02740
Chatham	508-945-5961 FAX: 945-3793	Lorraine Spenle, 29C Stage Harbor Road Chatham, MA 02633
Woods Hole	508-495-2000 FAX: 548-2258	John Mahoney, Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543
Newport	401-847-3115 FAX: 842-0980	Margaret Toner, Post Office Bldg., Thames St., Newport, RI 02840
Pt. Judith	401-783-7797 FAX: 782-2113	Walter Anoushian, 83 State St., 2nd floor P.O. Box 547, Narragansett, RI 02882
<u>MIDDLE ATLANTIC</u>		
New York	212-620-3405 FAX: 620-3577	Leo Gaudin / R. Santangelo, New York Market News 201 Varick Street, Rm. 731, New York, NY 10014
East Hampton	516-324-3569 FAX: 324-3314	Erik Braun, 62 Newtown Lane, Suite 203, East Hampton, NY 11937
Patchogue	516-475-6988 FAX: 289-8361	David McKernan, Social Security Bldg., 50 Maple Ave., P.O. Box 606, Patchogue, L.I., NY 11772
Toms River	732-349-3533 FAX: 349-4319	Eugene Steady / Kathy Corbo, 26 Main St., P.O. Box 143, Toms River, NJ 08754
Cape May	609-884-2113 FAX: 884-4908	Walt Makowski, 1382 Lafayette St., P.O. Box 624, Cape May, NJ 08204
<u>CHESAPEAKE</u>		
Ocean City	410-213-2761 FAX: 213-7029	Ingo Fleming, 12904 Kelly Bridge Rd., P.O. Box 474, Ocean City, MD 21842
Hampton	757-723-3369 FAX: 728-3947	David Ulmer / Steve Ellis, 1026 Settlers Landing Rd., Suite F, P.O. Box 436, Hampton, VA 23669
<u>SOUTHEAST REGION</u>		
(1) Beaufort	252-728-8720 FAX: 728-8772	Nelson Johnson, Beaufort Laboratory, 101 Piver Island Road, Beaufort, NC 28516
New Smyrna Beach	904-427-6562 FAX: SAME	Claudia Dennis, Coast Guard Station/Ponce P.O. Box 2025, New Smyrna Beach, FL 32170
Tequesta	561-575-4461 FAX: 361-4565	H. Charles Schaefer, 19100 S.E. Federal Highway Tequesta, FL 33469
(1) Miami	305-361-4468 FAX: 361-4460	Guy S. Davenport / Pam Brown, 75 Virginia Beach Dr., Miami, FL 33149
Key West	305-294-1921 FAX: SAME	Edward J. Little, Jr., Post Office & Custom House Bldg., P.O. Box 269, Key West, FL 33040

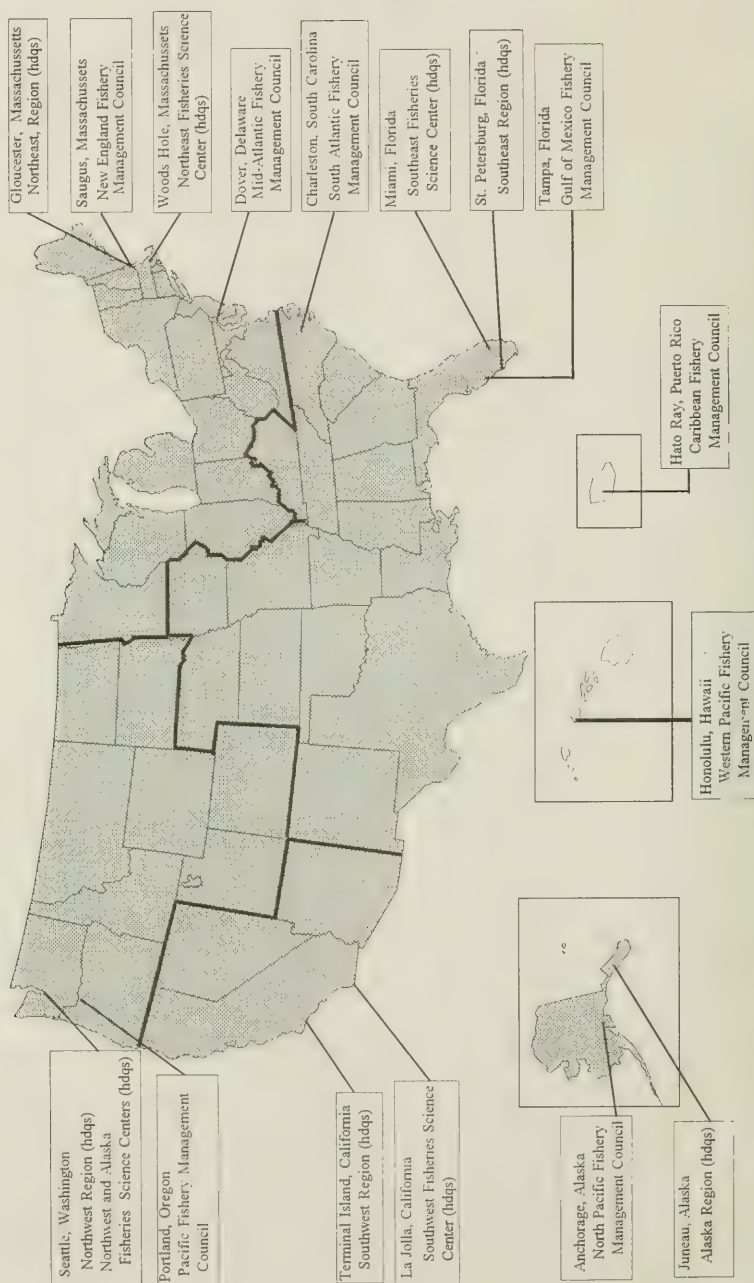
(Continued)

**NATIONAL MARINE FISHERIES SERVICE
NATIONAL FISHERY STATISTICS OFFICES**

<u>CITY</u>	<u>TELEPHONE NUMBER</u>	<u>NAME AND ADDRESS</u>
<u>GULF</u>		
Fort Myers	941-334-4364 FAX: SAME	Tom Herbert, 2000 Main St., Suite 409 Fort Myers, FL 33901
St. Petersburg	813-570-5393 FAX: 570-5300	Renee Brown, 9721 Executive Center Drive, St. Petersburg, FL 33702
Panama City	850-234-6541 FAX: 235-3558	Deborah Fable, 3500 Delwood Beach Rd., Panama City, FL 32407
Mobile	334-441-6193 FAX: SAME	Ted Flowers, U.S.Coast Guard - ATC P.O. Box 97, Mobile, AL 36608
Pascagoula	601-762-7402 FAX: 769-9200	Rene Labadens, Jr., 3209 Frederic St., Pascagoula Lab., P.O. Box Drawer 1207, Pascagoula, MS 39567
Chalmette	504-277-0365 FAX: 271-9150	Maggie Bourgeois / Jay Boulet, 2626 Charles Dr., Suite 201, Chalmette, LA 70043
Golden Meadow	504-632-4324 FAX: SAME	Gary J. Rousse, 290 E. 57th St. (Cutoff, LA 70345) P.O. Box 623, Golden Meadow, LA 70357
Houma	504-872-3321 FAX: SAME	Kathleen Hebert, 425 Lafayette St., Rm. 128, Houma, LA 70360
	504-872-1403 FAX: SAME	Billy Ray Tucker, 1340 W. Tunnel Blvd., Suite 222, Houma, LA 70360
Marrero	504-340-5820 FAX: SAME	Jan Simpson, 5201 Westbank Expressway, Suite 312, Marrero, LA 70072
New Iberia	318-365-1558 FAX: SAME	Linda F. Picou, 705-A West Admiral Doyle Dr. New Iberia, LA 70560
New Orleans	504-589-6151 FAX: SAME	Debbie Batiste, 423 Canal St., Rm. 213, New Orleans, LA 70130
Aransas Pass	512-758-1043 FAX: SAME	Roy Spears, 132 Cleveland Blvd., P.O. Box 1815, Aransas Pass, TX 78336
Brownsville/ Port Isabel	210-548-2516 FAX: SAME	Kit Doncaster / Edie Lopez, Shrimp Turning Basin, HC 70 Box 15, Brownville, TX 78521
Freeport	409-233-4551 FAX: SAME	Thomas R. Mauermann, Texas Gulf Bank, Suite 213 P.O. Box 2533, Freeport, TX 77542
(1)Galveston	409-766-3705 FAX: 766-3543	Margot Hightower or W. Keith Roberts 4700 Avenue U, Bldg. 306, Galveston, TX 77551
Port Arthur	409-727-2271 FAX: SAME	Linda S. Trahan, Federal Bldg., Rm. 113, 2875 Jimmy Johnson Blvd., Port Arthur, TX 77640
<u>SOUTHWEST REGION</u>		
(1)Long Beach, CA or Honolulu, HI	562-980-4033 FAX: 980-4047	Patricia J. Donley, 501 West Ocean Boulevard, Rm. 4200, P.O. Box 32469, Long Beach, CA 90832
<u>NORTHWEST REGION</u>		
(1)Seattle	206-526-6119 FAX: 526-4461	John K. Bishop, 7600 Sand Point Way, NE, Bldg. 1 BIN C15700, Seattle, WA 98115
<u>ALASKA REGION</u>		
(1)Juneau	907-586-7323 FAX: 586-7465	David Ham, Federal Building, 4th Floor, 709 West 9th Street, P.O. Box 21668 Juneau, AK 99802

(1) Regional or area headquarters for statistics offices.

NMFS Regional Offices NMFS Fisheries Science Centers Regional Fishery Management Councils Headquarters Locations



LIBRARY INFORMATION

The NOAA Library and Information Network Catalog (NOAALINC) resides on Stilas, an integrated library system provided by the Sirsi Corporation. NOAALINC represents the automated holdings of the NOAA Central Library in Silver Spring, Maryland and 22 other NOAA libraries located around the U.S. Currently, the NOAALINC contains records for more than 200,000 items with 5,000-10,000 added each year.

NOAALINC provides several search methods to locate records of items. Users can search for keywords in titles, subject headings, authors, or series. Users can browse indexes of titles, subject headings, authors, series, or call number. Each bibliographic record shows a brief description of the item with a list of which libraries hold the item. The list of libraries will show the call number, item's specific information, and whether the item is available for circulation.

NOAALINC is available to anyone, without restriction, 24 hours a day, every day of the year. Visitors to the NOAA Central Library can access the catalog thru workstations located throughout the Library. Remote users can access the catalog thru a link from the NOAA Central Library's homepage at - <http://www.lib.noaa.gov/>.

NOAA personnel may contact the nearest NOAA Library or the NOAA Central Library and arrange to borrow materials. Members of the general public should contact their local library to arrange for an interlibrary loan. Restrictions apply on circulation of certain materials.

For further information contact the NOAA Central Library, 1315 East-West Highway, 2nd Floor, Silver Spring, MD 20910-3282. Telephone: 301-713-2699 (Ext. 124) or E-mail: reference@nodc.noaa.gov.

PUBLICATIONS AVAILABLE FROM U.S. GOVERNMENT PRINTING OFFICE**STATISTICAL REPORTS**

003-020-00167-0 Fisheries of the United States, 1996
...\$14.00

003-020-00169-6 Fisheries of the United States, 1997
...NA

003-009-00635-0 United States Industrial Outlook
1994: Business Forecasts for 350
Industries ...\$48.00

003-009-00650-3 United States Industrial Outlook
1995: Business Forecasts for 350
Industries ...\$19.00

003-009-00650-3 U.S. Global Outlook (Name change)
1995: Business Forecasts for 350
Industries...\$20.00

MISCELLANEOUS REPORTS

003-009-00618-0 United States Industrial Outlook
1993: Business Forecasts for 350
Industries ...\$37.00

S/N 703-023-
00000-2 Fishery Bulletin (Quarterly): Publishes
(FB) 2D Original Research Papers, etc.
\$32.00 a year

*For information or to purchase publications listed above
(Advance Payment Required), call or write:*

**Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20202
PHONE: 202-512-1800 / FAX: 512-2250**

PUBLICATIONS AVAILABLE FROM NATIONAL MARINE FISHERIES SERVICE AND
NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)
U.S. DEPARTMENT OF COMMERCE

SCIENTIFIC PUBLICATIONS:

Information on formal scientific publications by NMFS (such as NMFS journals and technical publications) may be obtained from the Scientific Publications Office (F/ST21), 7600 Sand Point Way, N.E., BIN C-15700, Seattle, WA 98115.

Telephone: 206-526-6107

CURRENT FISHERY STATISTICS (CFS) SERIES:

The reports listed below are in the Current Fisheries Statistics (CFS) series. They are statistical bulletins on marine recreational fishing, commercial fishing, and on the manufacture and commerce of fishery products. For further information or to obtain a subscription to these publications, contact the office shown below:

NOAA, National Marine Fisheries Service
Fisheries Statistics and Economics Division (F/ST1)
1315 East-West Highway
Silver Spring, MD 20910
Telephone: 301-713-2328

The bulletins shown below cover freezings and holdings prior to 1997 and holdings only for 1997 and the U.S. foreign trade in fishery products. If you wish a copy of the following publications, check the designated space () and return to the Office indicated above. The following are available annually:

- () FF - Frozen Fishery Products (Annual)
- () FT - Imports and Exports of Fishery Products (Annual)

OTHER PUBLICATIONS:

All publications listed below may be obtained from NTIS (address and phone number listed on page 142) or the originating office (code follows in parentheses). Copies are available only as long as supply lasts.

- () A Guide to Tunas of the Western Atlantic Ocean, NMFS, 1997. 18 p. (SF)
- () Endangered Species Act, Biennial Report, Status of Recovery Program, FY 1989-1991. (F/PR)

() Fishery Management Plan for Sharks of the Atlantic Ocean. (F/SF)

() Habitat Protection Activity Report. 1991 - 1993. (F/PR)

() Magnuson Fishery Conservation and Management Act, As Amended through November 28, 1990. (F/SF)

() Marine Mammal Protection Act, Annual Report. 1988-1989. (F/PR)

() Marine Mammal Protection Act, Annual Report. 1990-1991. (F/PR)

() Our Living Oceans - The First Annual Report on the Status of U.S. Living Marine Resources. (F/ST)

() Our Living Oceans - Report on The Status of U.S. Living Marine Resources, 1992 Data. (F/ST)

() Our Living Oceans - Report on The Status of U.S. Living Marine Resources, 1993 Data. (F/ST)

() Our Living Oceans - Report on The Economic Status of U.S. Fisheries, 1996. (F/ST)

() Report on Apportionments of Membership on the Regional Fishery Management Council (RFMCs) in 1994. (F/SF)

() The Saltonstall-Kennedy Grant Program: Fisheries Development and Utilization Research and Development Grants (F/IS)

() The Saltonstall-Kennedy Grant Program: Fisheries Development and Utilization Research and Development Grants - Annotated Bibliography (F/SF)

() USDC Approved List of Fish Establishments and Products -- Semi-Annual Report. (National Seafood Inspection Laboratory, Pascagoula, MS.)

Aquaculture and Capture Fisheries: Impacts in U.S. Seafood Markets. (NTIS No. PB-88-204185/GBA)

Developments of Value Added, Margin and Expenditures for Marine Fishery Products. (NTIS No. PB-89-125108)

Marine Mammal Strandings in the United States: Proceedings of the Second Marine Mammal Stranding Workshop, 1987. 1991. Reynolds, John E., III and Daniel K. Odell, (editors). (NOAA-TR-NMFS-98). 157 p. (F/PR)

Protecting Marine Mammals: Look from a Distance... but Don't Touch, Feed or Harm in the Wild. Prepared by the Texas Sea Grant Program for the Office of Protected Resources, NMFS, 1992. 6 p. (F/PR)

1970
1971

COM-71-50081
COM-75-10666

Year

Accession No.

Recovery Plan for the Humpback (*Megaptera novaeangliae*). Prepared by the Humpback Whale Recovery Team for the National Marine Fisheries Service, 1991. 1992. Silver Spring, Maryland. 105 p. (F/PR)

1972
1973
1974
1975
1976

COM-73-50644
COM-74-50546
COM-75-10862
PB-253966
PB-268662

Recovery Plan for the Kemp's Ridley Sea Turtle (*Lepidochelys kempi*). Prepared by the Kemp's Ridley Recovery Team for the U.S. Fish and Wildlife Service and NMFS, 1992. Washington, DC. (F/PR)

1977
1978
1979
1980
1981

PB-282741
PB-297083
PB-80-201593
PB-81-241648
PB-82-215542

Recovery Plan for Leatherback Turtles in the U.S. Caribbean, Atlantic, and Gulf of Mexico. National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1992. Washington, D.C. (F/PR)

1982
1983
1984
1985
1986

PB-83-216473
PB-84-195148
PB-86-144953
PB-87-143145
PB-88-164132

Recovery Plan for the Northern Right Whale (*Eubalaena glacialis*). Prepared by the Right Whale Recovery Team for the National Marine Fisheries Service, 1991. 1992. Silver Spring, Maryland. 86 p. (F/PR)

1987
1988
1989
1990
1991

PB-88-215173
PB-89-216485
PB-91-129-320
PB-92-174523/AS
PB-93-204536/AS

Recovery Plan for U.S. Population of Atlantic Green Turtle. National Marine Fisheries Service, and Fish and Wildlife Service. 1991. Washington, D.C. (F/PR)

1992
1993

PB-94-156387
PB-95-219192

Recovery Plan for U.S. Population of Loggerhead Turtle (*Caretta caretta*). Prepared by the Loggerhead/Green Turtle Recovery Team for the U.S. Fish and Wildlife Service and NMFS. 1992. Washington, DC. (F/PR)

Fisheries Statistics of the United States (Statistical Digest) is a final report on the Nation's commercial fisheries showing more detail than *Fisheries of the United States*.

Recovery Plan for the Steller Sea Lion (*Eumetopias jubatus*). Prepared by the Steller Sea Lion Recovery Team for the National Marine Fisheries Service. 1992. Silver Spring, Maryland. 92 p. (F/PR)

Year
1939
1940
1941
1942

Accession No.
COM-75-11265
COM-75-11266
COM-75-11267
COM-75-11268

Striped Bass Research Study Report for 1993. National Marine Fisheries Service and U.S. Fish and Wildlife Service, 1995. Silver Spring, Maryland. 34 p. (F/SF)

1943
1944
1945
1946
1947

COM-75-11269
COM-75-11270
COM-75-11271
COM-75-11272
COM-75-11273

COMMERCIAL FISHERIES:

Fisheries of the United States is a preliminary report with historical comparisons on the Nation's fishing, fish processing, and foreign trade in fishery products. The following reports are available through NTIS.

Year

Accession No.

1966 COM-75-10662
1967 COM-75-10663
1968 COM-75-10664
1969 COM-75-10665

1948
1949
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960

COM-75-11274
COM-75-11275
COM-75-11056
COM-75-11053
COM-75-11054
COM-75-11055
COM-75-11057
COM-75-11058
COM-75-11059
COM-75-11060
COM-75-11061
COM-75-11062
COM-75-11063

<u>Year</u>	<u>Accession No.</u>
1961	COM-75-11064
1962	COM-75-11065
1963	COM-75-11066
1964	COM-75-11067
1965	COM-75-11068
1966	PB-246429
1967	PB-246430
1968	COM-72-50249
1969	COM-75-10887
1970	COM-75-10643
1971	COM-74-51227
1972	COM-75-11430
1973	PB-262058
1974	PB-277796
1975	PB-300625
1976	PB-81-163438
1977	PB-84-192038

MARINE RECREATIONAL FISHING:

1970 Salt-Water Angling Survey, PB-265416.

Determination of the Number of Commercial and Non-Commercial Recreational Boats in the United States, Their Use, and Selected Characteristics, COM-74-11186.

Participation in Marine Fishing:

Northeastern United States, 1973-74, COM-75-10655.
Southeastern United States, 1974, PB-273160.

MARINE RECREATIONAL FISHERY STATISTICS SURVEY:Atlantic and Gulf Coasts:HISTORICAL REPORTS:

Historical Catch Statistics is a series of publications reporting catch of certain species in the United States for historical purposes. The following reports are available through NTIS:

Atlantic and Gulf Coast States, 1879 - 1889. Current Fisheries Statistics No. 9010 - Historical Series Nos. 5-9 Revised. Report covers total landings for major species, by state and by region. (NTIS No. PB-93-174266)

Atlantic and Gulf Coast States, 1950 - 1991. Current Fisheries Statistics No. 9210 - Historical Series No. 10- Revised. Report covers landings and value of major species, by Region. (NTIS No. PB-93-174274)

IMPORTS AND EXPORTS OF FISHERY PRODUCTS:Annual Summary:

<u>Year</u>	<u>Accession No.</u>
1982	PB-92-218635
1983	PB-92-218643
1984	PB-92-214972
1985	PB-92-222280
1986	PB-92-228196
1987	PB-92-228055
1988	PB-92-222272
1989	PB-92-222264
1990	PB-92-222256
1991	PB-92-221803
1992	PB-95-219499
1993	PB-95-219481
1994	PB-95-219507

<u>Year</u>	<u>Accession No.</u>
1979-80	PB-84-199652
1979 (Revised)-1980	PB-89-102552
1981-1982	PB-89-102560
1983-1984	PB-89-102628
1985	PB-89-102669
1986	PB-89-102701
1987-1989	PB-92-174820
1990-1991	(F/ST1)

Pacific Coast:

<u>Year</u>	<u>Accession No.</u>
1981-1982	PB-89-102925/AS
1983-1984	PB-89-102933/AS
1985	PB-89-102941/AS
1986	PB-89-102958/AS
1987-1989	(F/ST1)

PROCESSED FISHERY PRODUCTS:Annual Summary:

<u>Year</u>	<u>Accession No.</u>
1979	PB-89-215248/AS
1980	PB-89-215255/AS
1981	PB-89-215263/AS
1982	PB-89-215289/AS
1983	PB-89-215271/AS
1984	PB-89-215297/AS
1985	PB-89-215305/AS
1986	PB-89-215313/AS
1987	PB-92-172956
1988	PB-92-204528/AS

STATE LANDINGS:

Maine: 1946-76, PB-271-296; 1977-79, PB-128258.

Massachusetts: 1943-76, PB-275866; 1977-79, PB-81-143182.

Rhode Island: 1954-77; PB-287627; 1978-79, PB-81-157158.

New York: 1954-76, PB-275449; 1977-79, PB-81-134546.

New Jersey: 1952-76, PB-275696; 1977-79, PB-81-159048

Maryland: 1960-76, PB-300636; 1977-79, PB-81-159003.

Virginia: 1960-76, PB-300637; 1977-79, PB-82-151960.

North Carolina: 1955-76, PB-288928; 1977-79, PB-82-151978.

South Carolina: 1957-76, PB-289405; 1977-79, PB-81-163198.

Georgia: 1956-76, PB-289814; 1977-79, PB-81-157166.

Florida: 1950-76, PB-292068.

Alabama: 1950-77, PB-80-121262; 1978, PB-82-168071.

Mississippi: 1951-77, PB-80-121270; 1978, PB-82-169079.

Louisiana: 1957-77, PB-300583; 1978, PB-82-168063.

Texas: 1949-77, PB-300603; 1978-79, PB-82-169004.

Shrimp Landings: 1956-76, PB-80-124696; 1978-79, PB-82-156183.

Gulf Coast Shrimp Data: 1958-76, PB-80-126899; 1978-79, PB-82-170390.

INTERNATIONAL REPORTS:

The Division of International Science and Technology, NMFS, prepares assessments of major fisheries to support priority NMFS programs. These reports may be of interest to the wider fishery community as they include biological, commercial, and technical information of potential use to academicians, industry, and environmentalists.

Swordfish:

In 1997 work was completed on a six-volume study, culminating a two-year research project to compile and analyze information on every key swordfish catching nation in the world. *World Swordfish Fisheries*, is the most

comprehensive documentation of this fishery ever produced. Each volume of the study contains information on catch, fishing grounds, fishing fleets, gear and methods, markets, trade, bycatch, research, international relations, and other facets of the fishery. The books are carefully documented and have extensive statistical appendices, graphics, and photographic images to help explain the fishery and illustrate key trends.

World Swordfish Fisheries: An Analysis of Swordfish Fisheries, Market Trends, and Trade Patterns, Past-Present-Future. Complete six-volume set. (NTIS No. PB-98-123414/GBA).

Volume I: Executive Overview. Summary of World Fisheries for Swordfish and Overview of Global and Regional Trends. 53 p. (NTIS No. PB-98-123425/GBA).

Volume II: Africa and the Middle East. Examination of Fisheries and Overview of Regional Trends in Africa and in Select Middle Eastern countries. 235 p. (NTIS No. PB-98-123433/GBA).

Volume III: Asia. Summary of Asian Fisheries and Overview of Regional Trends. Special Coverage of Japan, Korea, and Taiwan. 144 p. (NTIS No. PB-98-123441/GBA).

Volume IV: Latin America. Summary of Swordfish Fisheries, along the Pacific Coast of South America. Both volumes 843 p. Further individual country reports are planned for 1998.

Part A., Section 1, Segment A. Covers Fisheries of Colombia, Ecuador, and Peru (428 p.) (NTIS No. PB-98-123458/GBA).

Segment B. Provides in-depth Information about Chile (415 p.) (NTIS No. PB-98-123466/GBA).

Volume V: North America. Overview of Canadian and U.S. Fisheries for Swordfish. 136 p. (NTIS No. PB-98-123474/GBA).

Volume VI: Western Europe. Examination of European fisheries with special emphasis on the European Union member states (especially Spain, Italy, Greece and France). Non-EU countries are also considered. 324 p. (NTIS No. PB-98-123482/GBA).

World Fleet:

The Office of International Affairs, NMFS, prepared a six-volume study which analyzed trends in the world's distant-water fishing fleets. The subjects covered included catch, fishing areas, vessel construction and imports, flag-of-convenience registration, international agreements, and joint ventures.

World fishing Fleets: An Analysis of Distant-water Fleet Operations. Complete six-volume set. (NTIS No. PB-94-140811/GBA).

Volume I: Executive Summary. Overview of world distant-water fishing fleets and summary of regional trends. 54 p. (NTIS No. PB-94-140829/GBA).

Volume II: Africa. Compilation of information by U.S. Embassies on fleet operations in selected African countries. 51 p. (NTIS No. PB-94-140837/GBA).

Volume III: Asia. Overview of Asian fleets and individual studies of China, Japan, Republic of Korea, and Taiwan fleets. 144 p. (NTIS No. PB-94-140845/GBA).

Volume IV: Latin America. Overview of Caribbean, Central America, South America, and individual reports on the Latin American fleets engaged in distant-water fisheries. 513 p. (NTIS No. PB-94-140852/GBA).

Volume V: Baltic States, Commonwealth of Independent States, and Eastern Europe. Overview of each of these three blocs and 10 individual country studies including Russia, Poland, and Ukraine. 286 p. (NTIS No. PB-94-140860/GBA).

Volume VI: Western Europe and Canada. Overview sections for Europe Community and non-EC countries and individual country studies for all West European fishing nations and Canada. 362 p. (NTIS No. PB-94-140878/GBA).

World Shrimp and Salmon Culture Study:

A detailed overview of the salmon and shrimp culture industries in each of the primary producing countries of the world. The reports include information on species, areas developed, companies and farms, hatcheries, culture methods, research, harvests, exports, investments, environmental factors, trade, feed, and other subjects. The study was completed in 1992.

World Salmon Culture. This book provides detailed information about farmed salmon aquaculture around the world. A historical background is provided for all key farmed salmon producing nations. The work is carefully illustrated with graphs and statistical tables. An excellent resource for individuals seeking background information on salmon culture. 323 p. (NTIS No. PB-93-134617/GBA).

World Shrimp Culture. Complete work is available in two volumes (Volume II. has 3 parts). Readers may also purchase individual parts separately. 1,152 p. (NTIS No. PB-93-134625/GBA).

Volume I: Asia, Africa, Europe, the Middle East, and North America. Overview sections for Asia with reporting on shrimp culture in other countries. 362 p. (NTIS No. PB-94-140878/GBA).

Volume II. Latin America

Part I: This book includes a detailed Latin American overview and individual reports on the shrimp culture industry in the Caribbean island countries. 326 p. (NTIS No. PB93-134641/GBA).

Part II: This book includes a brief summary of the shrimp culture industry in Central America as well as individual reports on Mexico and each Central American country. 356 p. (NTIS No. PB93-134658/GBA).

Part III: This book includes a brief regional summary of shrimp culture in South America and individual reports on the shrimp culture industry of each South American country. 329 p. (NTIS No. PB93-134666/GBA).

Other International Reports:

Available Foreign Fisheries Market Reports, 1976-1983. These lists detail available reports covering 59 countries and regions. (NTIS No. ITA-83-02-010/GBA).

Available Foreign Fishery Reports, 1984-1992. Covering the same information as the 1976-1983 report.

NORTHEAST REGION:

A History of Benthic Research in the NMFS Northeast Fisheries Science Center. Steimle, F.W., J.M. Burnett, and R.B. Theroux. 1995. *Mar. Fish. Rev.* 57(2):1-13. (F/NEC).

Expanding opportunities in ocean sciences: strengthening the links between HBMSU [historically black and minority state colleges and universities] undergraduates and oceanic graduate studies: proceedings of a conference: +1-12 September 1995, Hampton University, Hampton, Virginia. Jearld, A., Jr., compiler and editor. 1996. *Northeast Fish. Sci. Cent. Ref. Doc.* 96-08. (F/NEC).

History of Salmon Fisheries and Management in the North Atlantic. Friedland, K.D. 1994. *ICES Coop. Res. Rep.* 197:6-22. (F/NEC).

Northeast Fisheries Science Center Publications, Reports, and Abstracts for Calendar Year 1996. Gibson, J.A. 1998. *Northeast Fish. Sci. Cent. Ref. Doc.* 97-13. (F/NEC).

Proceedings of the Symposium on the Potential for the Development of Aquaculture in Massachusetts: 15-17 February 1995, Chatham/ Edgartown/Dartmouth, Massachusetts. Castro, C.A., and S.J. Soares, editors. 1996. *NOAA Tech. Memo. NMFS NE-109*. (NTIS No. PB-97-103782).

Status of Fishery Resources off the Northeastern United States for 1995. Conservation and Utilization Division, Northeast Fisheries Science Center. 1995. *NOAA Tech. Memo. NMFS NE-108*. (NTIS No. PB-95-263414).

SOUTHEAST REGION:

Habitat Protection Accomplishments of the National Marine Fisheries Service - Fiscal Year 1996. Habitat Conservation Division, Southeast Regional Office. 1996. 88 p.+Appen. (F/SER).

National Marine Fisheries Service Guidelines for Proposed Wetland Alternation in the Southeastern United States. Habitat Conservation Division. Southeast Regional Office. March 1992. 17 p. (F/SER).

Summary of Federal Aid Grants and Cooperative Agreements Programs, National Marine Fisheries Service, Southeast Region, 1986-1995. Sutter, Frederick C. 1985. 112p. (F/SER)

SOUTHWEST REGION:

A Global Perspective on Artificial Reefs and Fish Aggregating Devices. In Indo-Pacific Fishery Commission (IPFC), Proceedings of the Symposium on Artificial Reefs and Fish Aggregating Devices as Tools for the Management and Enhancement of Marine Fishery Resources, Colombo, Sri Lanka, 14-17 May 1990. Regional Office for Asia and the Pacific (RAPA), Food and Agriculture Organization of the United States, Bangkok. (F/SWC).

Biodiversity and the Sustainability of Marine Fisheries. Boehlert, G. W. 1996. *Oceanography* 9(1): 28-35. (F/SWC).

Hawaii Longline Vessel Economics. Hamilton, M. S., R. E. Curtis, M. D. Travis. 1996. *Mar. Res. Econ.* 11:137-140. (F/SWC)

Hawaiian Monk Seals: Past, Present and Future. Brownell, R. L., Jr. 1996. *IBI Reports* 6:35-41. (F/SWC)

The Hawaiian Monk Seal in the Northwestern Hawaiian Islands, 1993. Johanos, T. C., and T. J. Ragen (eds.). 1996. 141 p. (NOAA-TM-NMFS-SWFSC-227). (F/SWC)

The Hawaiian Monk Seal in the Northwestern Hawaiian Islands, 1994. Johanos, T. C., and T. J. Ragen. 1996. 111 p. (NOAA-TM-NMFS-SWFSC-229). (F/SWC)

Japan's Mackerel Market. Sonu, Sunee C., September 1992. (NOAA-TM-NMFS-SWR-027). (F/SWR).

The Japanese Market for U.S. Tuna Products. Sonu, Sunee C. 1994. (NOAA-TM-NMFS-SWR-029). 64 p. (F/SWR).

The Japanese Sablefish Market. Sonu, Sunee C. 1996. (NOAA-TM-NMFS-SWR-031). 52p. (F/SWR).

The Japanese Sea Urchin Market. Sonu, Sunee C. 1995. (NOAA-TM-NMFS-SWR-030). 33 p. (F/SWR).

The Japanese Swordfish Market. Sonu, Sunee C. 1997. (NOAA-TM-NMFS-SWR-032). 79 p. (F/SWR)

Private Property Rights and Crises in World Fisheries: Turning the Tide? Grafton, R. Q., D. Squires, and J. E. Kirkley. 1996. *Contemp. Econ. Policy* 14:91-99. (F/SWC)

NORTHWEST REGION:

Status Review of Pink Salmon from Washington, Oregon, and California. Hard, J.J., R.G. Kope, W.S. Grant, F.W. Waknitz, L.T. Parker, and R.S. Waples. 1996. (NOAA-TM-NMFS-NWFSC-25) 131 p. (NTIS No. PB96-162607)

Status Review of West Coast Steelhead from Washington, Idaho, Oregon, and California. Busby, P.J., T.C. Wainwright, G.J. Bryant, L. Lierheimer, R.S. Waples, F.W. Waknitz, and I.V. Lagomarsino. 1996. (NOAA-TM-NMFS-NWFSC-27) 261 p. (NTIS No. PB96-210166).

ALASKA REGION:

Aerial and Ship-based Surveys of Steller Sea Lions (*Eumetopias jubatus*) in Southeast Alaska, the Gulf of Alaska, and Aleutian Islands during June and July 1994. Strick, J. M., L. W. Fritz, and J. P. Lewis. 1997. (NOAA-TM-AFSC-71). 55 p. (NTIS No. PB97-144026).

Alaska Marine Mammal Stock Assessments, 1996. Hill, P. S., D. P. DeMaster, and R. J. Small. 1997. (NOAA-TM-AFSC-78). 150 p. (NTIS No. PB97-203277).

Assessment of the Status of Harbor Porpoise (*Phocoena phocoena*) in Oregon and Washington waters. Osmeck, S., J. Calambokidis, J. Laake, P. Gearin, R. DeLong, J.

Scordino, S. Jeffries, and R. Brown. 1997. (NOAA-TM-AFSC-76). 46 p. (NTIS No. PB97-198436).

Data report: National Marine Fisheries Service Longline Surveys, 1991-96. Rutecki, T. L., M. F. Sigler, and H. H. Zenger Jr. 1997. (NOAA-TM-AFSC-83). 64 p. (NTIS No. PB98-108822).

Data Report: 1996 Gulf of Alaska Bottom Trawl Survey. Martin, M. H. 1997. (NOAA-TM-AFSC-82) 235 p. (NTIS No. PB98-103930).

Diversity and Abundance of Neustonic Zooplankton in the North Pacific Subarctic Frontal Zone. Ebberts, B. D., and B. L. Wing. 1997. (NOAA-TM-AFSC-70). 34 p. (NTIS No. PB97-138218).

Echo Integration-Trawl Survey of Pacific Whiting, *Merluccius productus*, off the West Coasts of the United States and Canada during July-September 1995. Wilson, C. D., and M. A. Guttormsen. 1997. (NOAA-TM-AFSC-74). 70 p. (NTIS No. PB97-174387).

Economic Status of the Groundfish Fisheries off Alaska, 1995. Kinoshita, R. K., A. Grieg, D. Colpo, and J.M. Terry. 1997. (NOAA-TM-AFSC-72). 91 p. (NTIS No. PB97-161269).

Field Studies of Steller Sea Lions (*Eumetopias jubatus*) at Marmot Island, Alaska, 1979 through 1994. Chumbley, K., J. Sease, M. Strick, and R. Towell. 1997. (NOAA-TM-AFSC-77). 99 p. (NTIS No. PB97-203376).

Ichthyoplankton in the Eastern Gulf of Alaska, May 1990. Wing, B. L., C. W. Derrah, and V. M. O'Connell. 1997. (NOAA-TM-AFSC-75). 42 p. (NTIS No. PB97-174379).

The 1995 Pacific West Coast upper Continental Slope Trawl Survey of Groundfish Resources off Southern Oregon and Northern California: Estimates of distribution

Abundance, and Length Composition. Lauth, R. R. 1997. (NOAA-TM-AFSC-80). 110 p. (NTIS No. PB97-208920).

The 1996 Pacific West Coast Upper Continental Slope Trawl Survey of Groundfish Resources off Washington and Oregon: Estimates of Distribution, Abundance, and Length Composition. Lauth, R. R. 1997. (NOAA-TM-AFSC-81). 156 p. (NTIS No. PB97-208912).

Results of Trawl Surveys of Groundfish Resources of the West Coast Upper Continental Slope from 1989 to 1993. Lauth, R. R., M. E. Wilkins, and P. A. Raymore Jr. 1997. (NOAA-TM-AFSC-79). 342 p. (NTIS No. PB97-208904).

Suitability of Dry Bay, Southeastern Alaska, as Rearing Habitat for Juvenile Salmon. Celewycz, A. G., and A. C. Wertheimer. 1997. (NOAA-TM-AFSC-73). 19 p. (NTIS No. PB97-161343).

Fur Seal Investigations, 1994. Sinclair, E.H. (editor). 1996. (NOAA-TM-AFSC-69). 144 p. (NTIS No. PB97-129456).

Oregon, Washington, and Alaska Exports of Edible Fishery Products, 1994. Kinoshita, R. K., and J. M. Terry. 1996. (NOAA-TM-AFSC-63). 49 p. (NTIS No. PB96-183553).

Status of Pacific Salmon and Steelhead Escapements in Southern Alaska. Baker, T. T., A. C. Wertheimer, R. D. Burkett, R. Dunlap, D. M. Eggers, E. I. Fritts, A. J. Gharrett, R. A. Holmes, and R. L. Wilmot. 1996. *Fisheries* 21(10): 6-18. (F/AKC).

The Threatened Status of Steller Sea Lions, *Eumetopias jubatus*, Under the Endangered Species Act: Effects on Alaska Groundfish Fisheries Management. Fritz, L.W., R. C. Ferrero, and R.J. Berg. 1995. *Mar. Fish. Rev.* 57(2):14-27. (F/AKC).



=====

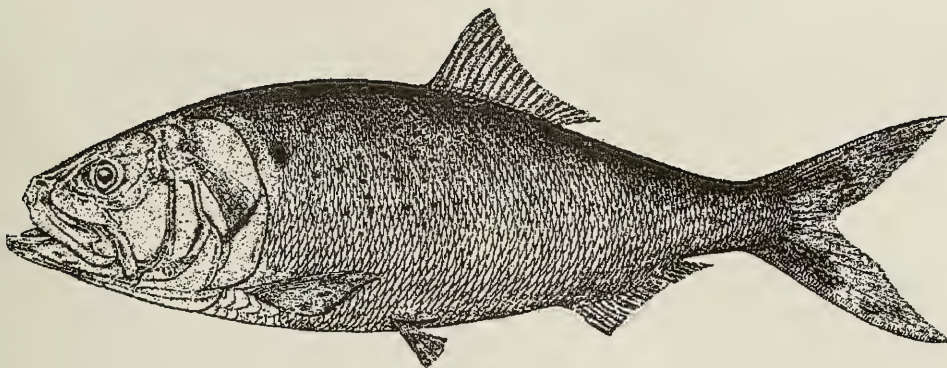
To purchase the preceding reports listed with NTIS, call or write:

NTIS -- ATTN: Order Desk

5285 Port Royal Road,

Springfield, VA 22161

PHONE: 703-487-4650 / FAX: 321-8547



MENHADEN

Menhaden, also called pogey, shiner or bunker by fishermen, belong to the family Clupeidae and are related to herring, shad and sardine. They are small, pelagic fishes that often occur in large, dense schools of thousands of fish. There are four species of menhaden that occur along the U.S. Atlantic and Gulf coasts. The Atlantic menhaden (Brevoortia tyrannus) pictured above and the Gulf menhaden (B. patronus) are the principal species landed. Commercial fishermen locate schools of fish using spotters in airplanes and then capture them with purse seines. Menhaden, because of their high fat and oil content, are a valued industrial component of the U.S. commercial fishery.

About 2.0 billion pounds of menhaden valued at \$112 million were landed by U.S. fishermen in 1997. Menhaden comprised about 21 percent of the total U.S. domestic landings and were second only to Alaska (walleye) pollock in the volume of fish landed. Small quantities of menhaden were sold for bait, but most harvested fish were cooked and rendered into meal, oil and solubles. These processed products were used in poultry and cattle feeds, fertilizers, paints, lubricants, plasticizers, and oils. Menhaden are also important as a forage fish for striped bass, tuna, bluefish, and other predators.

NATIONAL MARINE FISHERIES SERVICE FISHERIES MARKET NEWS

FAX-ON-DEMAND SYSTEM

The National Marine Fisheries Service (NMFS) has collected market information at principal U.S. ports for 60 years. In an effort to provide a continuing high level of service to the seafood community this information is now available through the NMFS Fax-on-Demand Service. Up-to-date information on various landings data, wholesale values, foreign trade, cold storage holdings, trade leads, and Japanese market are now just a phone call away. The cost to you is a phone call, the service is free. Please feel free in helping NMFS spread the word about the Fax-on-Demand Service.

INSTRUCTIONS

1. You **must** place your call from a fax machine. At any fax machine, pick up handset (or use speaker phone capability, if so equipped) and using the fax machine's numeric keypad, dial the NMFS Fax Management System phone number:

301 - 713 - 1415

2. A human voice will greet you and welcome you to the NMFS Fax Management System and will immediately ask you to enter your **Fax Mailbox Number, followed by the pound (#) sign**. Respond by entering the mailbox number for Fisheries Market News:

200 #

3. After you are welcomed to the Fisheries Market News Fax Service you will be guided by a series of human voice prompts. First you are given the opportunity to **enter a document number (like those found on the document listing), followed by the pound (#) sign**:

Examples: **For daily New York Fulton Market Fresh Prices, enter 21#**
 For most recent Cold Storage Report enter 71#

For a list of available documents (Menu of Document Choices), enter 1#

4. Follow remaining voice prompts for confirmation of selection(s) and entering additional document numbers. After you have selected the documents you want, you will be prompted to press the pound (#) key to proceed.
5. You will now be asked to press the **START** or **SEND** key on fax machine. Wait until you hear the typical fax tone indicating a good connection and hang up the handset.

Please call **(301-713-2328)** for further information or if you have any questions or problems.

NATIONAL MARINE FISHERIES SERVICE FISHERIES MARKET NEWS

FAX-ON-DEMAND MENU CHOICES -- MAILBOX #200

FAX: (301) 713-1415

DOCUMENT NUMBER	REPORT	UPDATE SCHEDULE
1	Menu Choices	
2	Commonly Used Abbreviations	
5*	Trade Leads	Friday
	NEW YORK: Leo Gaudin (212) 620-3405	
21*	Fulton Market Fresh Prices	Daily
22*	New York Frozen Prices	Friday
	BOSTON: Jack French (617) 223-8018	
30	Boston Lobster Prices	Daily (exc. Weds.)
31*	New England Auction	Daily
32*	Boston Frozen Market Prices	Wednesday
33	New England Auction Summary	Friday
34	New England Cold Storage	Friday
	NEW ORLEANS: Maggie Bourgeois (504) 589-6151	
41	Gulf Shrimp Landings by Area and Species	Monday
42	Ex-Vessel Gulf Fresh Shrimp Prices and Landings	Monday
43	Gulf Finfish and Shellfish Landings	Monday
44*	Fish Meal and Oil Prices	Thursday
45*	Shrimp Statistics	Monthly
	LONG BEACH: Patricia Donley (310) 980-4033	
52	San Pedro, CA Market Prices	Friday
53	Canned Tuna Import Quota Update	Friday
55	United States Tuna Cannery Receipts	Monthly
	SEATTLE: John Bishop (206) 526-6119	
61	Wholesale Canned Salmon Prices (West Coast)	Tuesday
62*	Wholesale Shellfish Prices (West Coast)	Tuesday
63	Preliminary Oregon Landings	Tuesday
64	Halibut & Sablefish Total IFQ Landings	Weekly
65	Groundfish: Gulf of Alaska - Preliminary Catch	Weekly
66	Bering Sea & Aleutians - Preliminary Catch	Weekly
67	Oregon Landings & Exvessel Price	Monthly
68	Washington Landings & Exvessel Price	Monthly
	NMFS HEADQUARTERS: William Uttley (301) 713-2328	
71*	National Cold Storage	Monthly
72	West Coast Cold Storage	Monthly
73	Foreign Trade of Selected Products	Monthly
74	Imports of Shrimp	Monthly
75	Imports of Frozen Fish Blocks	Monthly
76*	Fish Meal and Oil Production	Quarterly
77*	Purse-Seine Landings of Menhaden	Monthly
	JAPANESE DATA: Long Beach - Sunee C. Sonu (310) 980-4038	
81	Japanese Shrimp Imports	Monthly
82	Japanese Fishery Imports	Monthly
83	Japanese Fishery Exports	Monthly
84	Japanese Cold Storage Holdings	Monthly
85	Tokyo Wholesale Shrimp Prices	Bi-weekly
86	Tokyo Wholesale Prices	Bi-weekly
87	Fish Landings and Average Ex-vessel Prices	Monthly
88	Sales Volume and Average Wholesale Prices	Monthly

UPDATE SCHEDULES: 3:00 pm ET.

*NOTE:--Accessible via (Internet) - <http://www.st.nmfs.gov/st1>

NATIONAL MARINE FISHERIES SERVICE FISHERIES MARKET NEWS

HOME PAGES

The National Marine Fisheries Service provides information on programs and data available to the public and fishing industry via Internet home pages. Please use the following address for NMFS' home page - <http://www.nmfs.gov> through a personal computer. If you wish to access individual office home pages the addresses and a brief description follows:

Fisheries Statistics and Economics - <http://www.st.nmfs.gov/st1/>. Describes commercial and recreational fisheries statistics data collection programs and provides access to: commercial landings data bases; Marine Recreational Fisheries Statistics Survey (MRFS) data; fishery economics; cold storage data; Market News Reports; trade data; U.S. Coast Guard vessel documentation; and electronic copies of the publication "Fisheries of the United States."

Inspection Program - <http://www.nmfs.gov/iss/issue.html>. Provides information on the voluntary National Seafood Inspection Program, including the services offered in the US and foreign countries to harvesters, processors, distributors, importers/exporters, buyers, and retailers; list of approved fish establishments and products; fees and charges; policies for advertising services; and official inspection marks and certificates.

Protected Resources - http://nmfs.gov/tmcintyr/prot_res.html. Contains recovery efforts for species considered endangered or threatened; depleted species of marine mammals; and a comprehensive list of other Internet resources pertaining to protection programs and other issues. Information on Endangered Species Act and Marine Mammal Protection Act.

Sustainable Fisheries Act/Magnuson-Stevens Act - <http://www.nmfs.gov/sfa.html>. The Sustainable Fisheries Act of 1996 amended the Magnuson-Stevens Fishery Conservation and Management Act (MSFCM) (1976 et seq.). Provides electronic copies of both Acts, a legislative history and guide to the amendments to the Act, and a tracking system for Council and NMFS actions implementing the amendments. In addition, the MSFCM Act amendment actions requiring public comment are posted with completed research reports and other documents required by the Sustainable Fisheries Act.

Saltonstall-Kennedy Grant Program - <http://www.nmfs.gov/sfweb/skhome.html>. Description of the Saltonstall-Kennedy (S-K) Program, the most recent solicitation for proposals, application forms and instructions, FAQs, and Regional contacts for the S-K Program, as well as the latest update to the S-K Annotated Bibliography of completed projects.

Northeast Region - <http://www.nero.nmfs.gov/doc/nero.html>. Describes the mission and responsibilities of the Regional Office Staffs and Divisions. Provides information on northeast fisheries regulations, quota reports for specific species, multi-species preliminary statistics reports; scallop and multi-species days-at-sea activity reports; federal aid for MARFIN and SK grant programs; and links to other NOAA sites.

Northeast Fisheries Scientific Center - <http://www.nefsc.nmfs.gov>. Provides current and historical northeast fisheries information and data about research facilities, vessels, programs, publications, management, laws and regulations, and answers to frequently asked questions on fish and fisheries research. Features in-depth information on northeast stock status and realtime, at-sea, display of research vessel activities, measurements, and observations.

Southeast Region - <http://caldera.sero.nmfs.gov/>. Provides information on regional Federal activities including: fisheries regulations, news releases and fisheries bulletins, fisheries regulations, vessel and dealer permits, fishery management plan implementation/quotas, marine mammals and endangered species management and protection, habitat protection and restoration activities, and federal aid programs for grants and cooperative agreements.

Southeast Fisheries Science Center - <http://www.sefsc.noaa.gov/>. Describes the mission of the Center in support of NMFS including laboratories dedicated to research covering North Carolina to Texas and the Caribbean. Provides research data to support the programs which include large marine ecosystem, collecting and reporting statistical/economic data, fishery resource conservation, protection of marine mammals and endangered species, and impact analysis / environmental assessments.

NATIONAL MARINE FISHERIES SERVICE FISHERIES MARKET NEWS

HOME PAGES

Alaska Region - <http://www.fakr.noaa.gov/> Provides information on in season state of groundfish catch, statistics, information bulletins, regulations, maps, tables, and instructions. Sablefish and halibut individual fishing quota program, catch data and appeal cases. Information on Marine Mammal Authorization Program.

Alaska Fisheries Science Center - <http://www.afsc.noaa.gov/> Describes the mission of the Center and the organization and purpose of its laboratories, divisions, and programs dedicated to Federal fisheries research in the coastal oceans off Alaska and the West Coast of the United States and marine mammal research on current ecosystems. Provides stock assessment, cruise reports and schedules, educational materials, publication lists, and other online documents.

Northwest Region - <http://www.nwr.noaa.gov/> Provides information on the region's activities, mission and responsibilities. It includes news releases, announcements, documents and Federal Register notices about fisheries management plans, public hearings, programs, regulations, Endangered Species Act listings and proposals, habitat conservation, and regional hydro power activities.

Northwest Fisheries Science Center - <http://research.nwfsc.noaa.gov/nwfsc-homepage.html> Describes Center research, including status and recovery of endangered salmon and new hatchery-rearing techniques; rapid-response analyses of chemical pollution and harmful algae blooms in fishery grounds nationwide; assessing the west coast groundfish fishery; and developing new bycatch utilization technologies. News topics, current publications, library resources, and the Center's state-of-the-art water-recycling fish culture facility are also featured.

Southwest Region - <http://swr.ucsd.edu> Described the mission and responsibilities of the regional office. Announcements of Federal Register notices on seasons, trip limits, quotas and other fishery management plan information. Provides information on fisheries statistics, trade data, canned tuna updates and status of tuna import quotas, and catch reports for various California fisheries. Japanese market reports are available on sablefish, shrimp, landings, cold storage and wholesale prices. Links to other pertinent sites of interest to fishery and seafood industries.

Southwest Fisheries Science Center - <http://swfsc.ucsd.edu> Descriptions of programs, laboratories, geographic scope, center organization, research vessels, upper level scientific/management staffs, publications, newsletters (tuna and billfish), and mission of the Center. Information on types of research being conducted on fishes, marine mammal, sea turtles, habitat and marine ecosystems. Also, updated NOAA's Resource Guide for Teachers of Marine Science is available for download.

BULLETIN BOARDS

Several National Marine Fisheries Service offices provide public access to electronic bulletin board services operating 24-hours a day to furnish the fishing industry with current information. Listed below are necessary facts needed to access these bulletin boards via a personal computer.

Northwest Region: The Northwest Regional Office service is available by dialing 206-526-6405 at 2400 baud, no parity, 8 data bits, 1 stop bit, full duplex. (The region plans to upgrade baud rate to 28.8 by January 1995.) Information is presented through a system of menus and displayed on-line. A variety of reports are included: current groundfish and salmon regulations; current entry program, limited entry groundfish permits; foreign trade news and data files; HACCP FDA information; Saltonstall / Kennedy Program; view your account; testing system; NMFS news and phone numbers; list of files or transfers; and miscellaneous information. For additional information contact John Bishop, 206-526-6119, at the Northwest Regional Office.

Southwest Region: The Southwest Regional Office service is available by dialing 310-980-4059 at 2400 baud, no parity, 8 data bits, 1 stop bit, full duplex. Information is presented in the form of bulletins organized through a system of menus and displayed on-line. Announcements include Federal Register notices of seasons, trip limits, and quotas for groundfish, salmon, and coastal pelagic fisheries. Trade and industry reports are available for fishery product imports into Southern California / Arizona / Hawaii, canned tuna industry updates and status of canned tuna import quotas, catch reports and the status of quotas or allocations for various California fisheries, a calendar of public meetings and events, Pacific Council News and information concerning protected species and marine recreational fisheries. For additional information contact Dan Viele, 310-980-4039, at the Southwest Regional Office.

SEA GRANT EXTENSION SERVICE

The Office of Sea Grant is a major program element of the National Oceanic and Atmospheric Administration. The National Sea Grant College Program is funded jointly by the Federal Government and colleges or universities. Sea Grant's Extension Service offers a broad range of information concerning the Nation's fisheries to recreational and commercial fishermen, fish processors, and others. The following program leaders, listed alphabetically by State, can provide information on Sea Grant activities:

William Hosking, Coordinator
Alabama Sea Grant Extension
Auburn University Marine
Extension & Research Center
4170 Commander's Drive
Mobile, AL 36615
(334) 438-5690 FAX: 438-5670

Donald E. Kramer, Extension/MAP Leader
Alaska Sea Grant College Program
2221 East Northern Lights #110
Anchorage, AK 99508
(907) 274-9691 FAX: 277-5242

Christopher M. DeWees,
Coordinator
Sea Grant Extension Program
Department of Wildlife
and Fisheries
Univ. of CA - Davis
Davis, CA 95616
(916) 752-1497 FAX: 752-4154

Susan Yoder, Extension Leader
USC Sea Grant Program
Hancock Institute of Marine
Studies, University Park
Los Angeles, CA 90089
(213) 740-1964 FAX: 740-5936

Nancy Balcom, Interim Extension Leader
Sea Grant Extension Program
Univ. of Connecticut
1084 Shennecossett Road
Groton, CT 06340
(860) 405-9107 FAX: 485-9109

Kent Price, Extension Leader
Delaware Sea Grant College Prog.
Marine Advisory Service
700 Pilottown Road
Lewes, DE 19958
(302) 645-4256 FAX: 645-4007

Marion L. Clarke, Leader
Florida Sea Grant Extension
Univ. of FL - Bldg. 803
P.O. Box 110405
Gainesville, FL 32611
(352) 392-1837 FAX: 392-5113

Keith Gates,
Sea Grant Extension Leader
Marine Extension Service
715 Bay Street
Brunswick, GA 31520
(912) 264-7268 FAX: 264-7312

Bruce J. Miller, Assoc. Dir.
Director of Extension/Pacific
Programs, Sea Grant Extension
Service, Univ. of HA
1000 Pope Road, MSB 227
Honolulu, HI 96822
(808) 956-8645 FAX: 956-2858

Brian Miller,
Sea Grant Extension Leader
Forestry & Natural Resources
Purdue Univ. - Forestry Bldg.
West Lafayette, IN 47907
(912) 264-7268 FAX: 264-7312

Michael Liffman, Assist. Dir.
Louisiana Sea Grant College
Program, LA State Univ.
136 Wetland Resources Building
Baton Rouge, LA 70803
(504) 388-6290 FAX: 388-6331

Ron Beard, Extension Leader
ME/NH Sea Grant College Program
21 Coburn Hall, Univ. Of ME
Orono, ME 04469
(207) 581-1440 FAX: 581-1423

Douglas Lipton, Extension Leader
Cooperative Extension Service
2218B Symons Hall - Univ. of MD
College Park, MD 20742
(301) 405-1280 FAX: 314-9032

Cliff Goudey, Extension Leader
MIT Sea Grant College Program
E38-324/Kendall Square
292 Main Street
Cambridge, MA 02139
(617) 253-7079 FAX: 258-5730

Dale Leavitt, Extension Leader
WHOI Sea Grant Program
Mail Stop #2, Coastal Research Lab.
Woods Hole Oceanographic
Institute
Woods Hole, MA 02543
(508) 289-2997 FAX: 457-2172

John Schwartz, Extension Leader
Michigan Sea Grant College Prog.
Michigan State University
334 Natural Resource Building
East Lansing, MI 48824
(517) 355-9637 FAX: 353-6496

SEA GRANT EXTENSION SERVICE

Jeffery Gunderson, Extension Leader
Minnesota Sea Grant
Univ. of MN - Duluth
208 Washburn Hall
Duluth, MN 55812
(218) 726-8715 FAX: 726-6556

David C. Veal, Extension Leader
MS Sea Grant
Coastal Research/Extension Center
2710 Beach Blvd., Suite 1-E
Biloxi, MS 39531
(601) 338-4710 FAX: 388-1375

Brian E. Doyle, Extension Leader
Sea Grant College Program
Univ. of NH - Kingman Farm
Durham, NH 03824
(603) 749-1565 FAX: 743-3997

Alex Wypyszinski, Extension Leader
New Jersey Sea Grant College
Program, Cook College
P.O. Box 231
New Brunswick, NJ 08903
(908) 932-9636 ext: 221
FAX: (908) 932-6557

Dale R. Baker, Extension Leader
New York Sea Grant
Cornell University
340 Roberts Hall
Ithaca, NY 14853
(607) 255-2832 FAX: 255-2812

David Garten,
Sea Grant Extension Leader
Ohio State University
2120 Fyffe Rd.
Columbus, OH 43210
(614) 292-3548 FAX: 292-7710

James Murphy
Sea Grant Extension Leader
NC State Univ.
105 1911 Building - Box 8605
Raleigh, NC 27695
(919) 515-2454 FAX 515-7095

Jay Rasmussen, Program Leader
Oregon Extension Sea Grant
Hatfield Marine Science Center
2030 S. Marine Science Drive
Newport, OR 97365
(541) 867-0368 FAX: 867-0369

Javier Velez-Arocho, Extension Leader
Sea Grant College Program
Univ. of Puerto Rico
P.O. Box 5000
Mayaguez, PR 00681
(787) 832-8045 FAX: 265-2880

Coordinator, Rhode Island
Sea Grant Extension
Graduate School of Oceanography
University of RI
South Ferry Road
Narragansett, RI 02882
(401) 874-6800 FAX: 789-8340

Bob Bacon, Extension Leader
South Carolina Sea Grant
Marine Extension Program
287 Meeting Street
Charleston, SC 29401
(803) 727-2075 FAX: 727-2080

Mike Hightower,
Sea Grant Extension Coordinator
Texas Sea Grant College Program
1716 Briarcrest Drive, Suite 702
Bryan, TX 77802
(409) 845-7524 FAX: 845-7525

Wm. D. DuPaul, Extension/MAP Coordinator
Virginia Sea Grant College Prog.
Virginia Inst. of Marine Science
Gloucester Point, VA 23062
(804) 684-7164 FAX: 684-7161

Michael S. Spranger,
Extension/MAS Leader
Washington Sea Grant HG-30
University of WA
3716 Brooklyn Avenue, N.E.
Seattle, WA 98105
(206) 685-9291 FAX: 685-0380

Allen H. Miller, Extension/MAS Leader
Wisconsin Sea Grant Institute
Univ. of WI., Madison Campus
1800 University of WI., Madison Campus
Madison, WI 53705
(608) 262-0644 FAX: 263-2063

**National Sea Grant Depository
(Clearinghouse for all Sea Grant Publications)**

**Pell Library
University of Rhode Island
Bay Campus
Narragansett, RI 02882
PHONE: 401-874-6114
FAX: 874-6160**

ANADROMOUS SPECIES. These are species of fish that mature in the ocean, and then ascend streams to spawn in freshwater. In the Magnuson Act, these species include, but are not limited to, Atlantic and Pacific salmon, steelhead trout, and striped bass. See 42 FR 60682, Nov. 28, 1977.

ANALOG PRODUCTS. These include imitation and simulated crab, lobster, shrimp, scallops, and other fish and shellfish products fabricated from processed fish meat (such as surimi).

AQUACULTURE. The farming of aquatic organisms in marine, brackish, or fresh water. Farming implies private or corporate ownership of the organism and enhancement of production by stocking, feeding, providing protection from predators, or other management measures. Aquaculture production is reported as the weight and value of cultured organisms at their point of final sale.

BATTER-COATED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a batter containing a leavening agent and mixture of cereal products, flavoring, and other ingredients, and partially cooked in hot oil a short time to expand and set the batter.

BOAT, OTHER. Commercial fishing craft not powered by a motor, e.g., rowboat or sailboat, having a capacity of less than 5 net tons. See motorboat.

BREADED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a non-leavened mixture containing cereal products, flavorings, and other ingredients. Breaded products are sold raw or partially cooked.

BREADED SHRIMP. Peeled shrimp coated with breading. The product may be identified as fantail (butterfly) and round, with or without tail fins and last shell segment; also known as portions, sticks, steaks, etc., when prepared from a composite unit of two or more shrimp pieces whole shrimp or a combination of both without fins or shells.

BUTTERFLY FILLET. Two skin-on fillets of a fish joined together by the belly skin. See fillets.

CANNED FISHERY PRODUCTS. Fish, shellfish, or other aquatic animals packed in cans, or other containers, which are hermetically sealed and heat-sterilized. Canned fishery products may include milk, vegetables, or other products. Most, but not all, canned fishery products can be stored at room temperature for an indefinite time without spoiling.

COMMERCIAL FISHERMAN. An individual who derives income from catching and selling living resources taken from inland or marine waters.

CONSUMPTION OF EDIBLE FISHERY PRODUCTS. Estimated amount of commercially landed fish, shellfish, and other aquatic animals consumed by the civilian population of the United States. Estimates are on an edible-weight basis and have been adjusted for beginning and ending inventories of edible fishery products. Consumption includes U.S. production of fishery products from both domestically caught and imported fish, shellfish, other edible aquatic plants, animals, and imported products and excludes exports and purchases by the U.S. Armed Forces.

CONTINENTAL SHELF FISHERY RESOURCES. These are living organisms of any sedentary species that at the harvestable stage are either (a) immobile on or under the seabed, (b) unable to move except in constant physical contact with the seabed or subsoil of the continental shelf. The Magnuson Act now lists them as certain abalones, surf clam and ocean quahog, queen conch, Atlantic deep-sea red crab, dungeness crab, stone crab, king crabs, snow (tanner) crabs, American lobster, certain corals, and sponges.

CURED FISHERY PRODUCTS. Products preserved by drying, pickling, salting, or smoking; not including canned, frozen, irradiated, or pasteurized products. Dried products are cured by sun or air-drying; pickled or salted products are those products preserved by applying salt, or by pickling (immersing in brine or in a vinegar or other preservative solution); smoked products are cured with smoke or a combination of smoking and drying or salting.

DEFLATED VALUE. The deflated values referred to in this document are calculated with the Gross Domestic Products Implicit Price Deflator. The base year for this index is 1987.

EDIBLE WEIGHT. The weight of a seafood item exclusive of bones, offal, etc.

EEZ. See U.S. Exclusive Economic Zone.

EUROPEAN UNION. Belgium and Luxembourg, Denmark, Federal Republic of Germany, Greece, France, Ireland, Italy, Netherlands, Portugal, Spain, and United Kingdom. This was formerly known as European Economic Community (EEC).

EXPORT VALUE. The value reported is generally equivalent to f.a.s. (free alongside ship) value at the U.S. port of export, based on the transaction price, including inland freight, insurance, and other charges incurred in placing the merchandise alongside the carrier at the U.S. port of exportation. The value excludes the cost of loading, freight, insurance, and other charges or transportation cost beyond the port of exportation.

EXPORT WEIGHT. The weight of individual products as exported, i.e., fillets, steaks, whole, breaded, etc. Includes both domestic and foreign re-exports data.

EXVESSEL PRICE. Price received by the harvester for fish, shellfish, and other aquatic plants and animals.

FISH BLOCKS. Regular fish blocks are frozen blocks or slabs of fillets or pieces of fillets cut or sliced from fish. Minced fish blocks are frozen blocks or slabs of minced flesh produced by a meat and bone separating machine.

FISH FILLETS. The sides of fish that are either skinned or have the skin on, cut lengthwise from the backbone. Most types of fillets are boneless or virtually boneless; some may be labeled as "boneless fillets."

FISH MEAL. A high-protein animal feed supplement made by cooking, pressing, drying, and grinding fish or shellfish.

FISH OIL. An oil extracted from body (body oil) or liver (liver oil) of fish and marine mammals; mostly a byproduct of fish meal production.

FISH PORTION. A piece of fish flesh that is generally of uniform size with thickness of 3/8 of an inch or more and differs from a fish stick in being wider or of a different shape. A fish portion is generally cut from a fish block.

FISH SOLUBLES. A water-soluble protein byproduct of fish meal production. Fish solubles are generally condensed to 50 percent solids and marketed as "condensed fish solubles."

FISH STEAK. A cross-section slice cut from a large dressed fish. A steak is usually about 3/4 of an inch thick.

FISH STICK. An elongated piece of breaded fish flesh weighing not less than 3/4 of an ounce and not more than 1-1/2 ounces with the largest dimension at least three times that of the next largest dimension. A fish stick is generally cut from a fish block.

FISHERY MANAGEMENT PLAN (FMP). A plan developed by a Regional Fishery Management Council, or the Secretary of Commerce under certain circumstances, to manage a fishery resource in the U.S. EEZ pursuant to the MFCMA (Magnuson Act).

FISHING CRAFT, COMMERCIAL. Boats and vessels engaged in capturing fish, shellfish, and other aquatic plants and animals for sale.

FULL-TIME COMMERCIAL FISHERMAN. An individual who receives more than 50 percent of their annual income from commercial fishing activities, including port activity, such as vessel repair and re-rigging.

GROUND FISH. Broadly, fish that are caught on or near the sea floor. The term includes a wide variety of bottom fishes, rockfishes, and flatfishes. However, NMFS sometimes uses the term in a narrower sense. In "Fisheries of the United States," the term applies to the following species—Atlantic and Pacific: cod, hake, ocean perch, and pollock; cusk; and haddock.

IMPORT VALUE. Value of imports as appraised by the U.S. Customs Service according to the Tariff Act of 1930, as amended. It may be based on foreign market value, constructed value, American selling price, etc. It generally represents a value in a foreign country, and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise to the United States.

IMPORT WEIGHT. The weights of individual products as received, i.e., fillets, steaks, whole, headed, etc.

INDUSTRIAL FISHERY PRODUCTS. Items processed from fish, shellfish, or other aquatic plants and animals that are not consumed directly by humans. These items contain products from seaweeds, fish meal, fish oils, fish solubles, pearl essence, shark and other aquatic animal skins, and shells.

INTERNAL WATER PROCESSING (IWPs). An operation in which a foreign vessel is authorized by the governor of a state to receive and process fish in the internal waters of a state. The Magnuson Act refers to internal waters as all waters within the boundaries of a state except those seaward of the baseline from which the territorial sea is measured.

JOINT VENTURE. An operation authorized under the MFCMA (Magnuson Act) in which a foreign vessel is authorized to receive fish from U.S. fishermen in the U.S. EEZ. The fish received from the U.S. vessel are part of the U.S. harvest

LANDINGS, COMMERCIAL. Quantities of fish, shellfish, and other aquatic plants and animals brought ashore and sold. Landings of fish may be in terms of round (live) weight or dressed weight. Landings of crustaceans are generally on a live-weight basis except for shrimp which may be on a heads-on or heads-off basis. Mollusks are generally landed with the shell on, but for some species only the meats are landed, such as sea scallops. Data for all mollusks are published on a meat-weight basis.

MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT. Public Law 94-265, as amended. The Magnuson Act provides a national program for the conservation and management of fisheries to allow for an optimum yield (OY) on a continuing basis and to realize the full potential of the Nation's fishery resources. It established the U.S. Exclusive Economics Zone (EEZ) (formerly the FCZ - Fishery Conservation Zone) and a means to control foreign and certain domestic fisheries through PMPs and FMPs. Within the U.S. EEZ, the United States has exclusive management authority over fish (meaning finfish, mollusks, crustaceans, and all other forms of marine animal and plant life other than marine mammals, birds, and highly migratory species of tuna). The Magnuson Act provides further exclusive management authority beyond the U.S. EEZ for all continental shelf fishery resources and all anadromous species throughout the migratory range of each such species, except during the time they are found within any foreign nation's territorial sea or fishery conservation zone (or the equivalent), to the extent that such a sea or zone is recognized by the United States.

MARINE RECREATIONAL FISHING. Fishing for pleasure, amusement, relaxation, or home consumption.

MARINE RECREATIONAL CATCH. Quantities of finfish, shellfish, and other living aquatic organisms caught, but not necessarily brought ashore, by marine recreational fisherman.

MARINE RECREATIONAL FISHERMEN. Those people who fish in marine waters primarily for recreational purposes. Their catch is primarily for home consumption, although occasionally a part or all of their catch may be sold and enter commercial channels. This definition is used in the NMFS Marine Recreational Fishery Statistics Survey, and is not intended to represent a NMFS policy on the sale of angler-caught fish.

MAXIMUM SUSTAINABLE YIELD (MSY). MSY from a fishery is the largest annual catch or yield in terms of weight of fish caught by both commercial and recreational fishermen that can be taken continuously from a stock under existing environmental conditions. A determination of MSY, which should be an estimate based upon the best scientific information available, is a biological measure necessary in the development of optimum yield.

METRIC TONS. A measure of weight equal to 1,000 kilograms, 0.984 long tons, 1.1023 short tons, or 2,204.6 pounds.

MOTORBOAT. A motor-driven commercial fishing craft having a capacity of less than 5 net tons, or not officially documented by the Coast Guard. See "boat, other."

NORTHWEST ATLANTIC FISHERIES ORGANIZATION (NAFO). This convention, which entered into force January 1, 1979, replaces ICNAF. NAFO provides a forum for continued multilateral scientific research and investigation of fishery resources that occur beyond the limits of coastal nations' fishery jurisdiction in the northwest Atlantic, and will ensure consistency between NAFO management measures in this area and those adopted by the coastal nations within the limits of their fishery jurisdiction.

OPTIMUM YIELD (OY). In the MFCMA (Magnuson Act), OY with respect to the yield from a fishery, is the amount of fish that (1) will provide the greatest overall benefit to the United States, with particular reference to food production and recreational opportunities; and (2) is prescribed as such on the basis of maximum sustainable yield from such fishery, as modified by any relevant ecological, economic, or social factors.

PACKAGED FISH. A term used in NMFS publications prior to 1972 to designate fresh or frozen raw fish fillets and steaks.

PART-TIME COMMERCIAL FISHERMAN. An individual who receives less than 50 percent of their annual income from commercial fishing activities.

PER CAPITA CONSUMPTION. Consumption of edible fishery products in the United States divided by the total civilian population. In calculating annual per capita consumption, estimates of the civilian resident population of the United States on July 1 of each year are used. These estimates are taken from current population reports, series P-25, published by the U.S. Bureau of the Census.

PER CAPITA USE. The use of all fishery products, both edible and nonedible, in the United States divided by the total population of the United States.

PRELIMINARY FISHERY MANAGEMENT PLAN (PMP).

The Secretary of Commerce prepares a PMP whenever a foreign nation with which the United States has made a Governing International Fishery Agreement (GIFA) submits an application to fish in a fishery not managed by an FMP. A PMP is replaced by an FMP as soon as the latter is implemented. A PMP applies only to foreign fishing.

RE-EXPORTS. Re-exports are commodities which have entered the U.S. as imports and are subsequently exported in substantially the same condition as when originally imported.

RETAIL PRICE. The price of fish and shellfish sold to the final consumer by food stores and other retail outlets.

ROUND (LIVE) WEIGHT. The weight of fish, shellfish, or other aquatic plants and animals as taken from the water; the complete or full weight as caught. The tables on world catch found in this publication include, in the case of mollusks, the weight of both the shells and the meats, whereas the tables on U.S. landings include only the weight of the meats.

SURIMI. Minced fish meat (usually Alaska pollock) which has been washed to remove fat and undesirable matters (such as blood, pigments, and odorous substances), and mixed with cryoprotectants, such as sugar and/or sorbitol, for a good frozen shelf life.

TOTAL ALLOWABLE LEVEL OF FOREIGN FISHING

(TALFF). The TALFF, if any, with respect to any fishery subject to the exclusive fishery management authority of the United States, is that portion of the optimum yield of such fishery which will not be harvested by vessels of the United States, as determined by provisions of the MFCMA.

U.S. EXCLUSIVE ECONOMIC ZONE (EEZ). The MFCMA (Magnuson Act) defines this zone as contiguous to the territorial sea of the United States and extending seaward 200 nautical miles measured from the baseline from which the territorial sea is measured. This was formerly referred to as the FCZ (Fishery Conservation Zone).

U.S.-FLAG VESSEL LANDINGS. Includes landings by all U.S. fishing vessels regardless of where landed as opposed to landings at ports in the 50 United States. These include landings at foreign ports, U.S. territories, and foreign vessels in the U.S. FCZ under joint venture agreements. U.S. law prohibits vessels constructed or registered in foreign countries to land fish catches at U.S. ports.

U.S. TERRITORIAL SEA. A zone extending 3 nautical miles from shore for all states except Texas and the Gulf Coast of Florida where the seaward boundary is 3 marine leagues (9 nautical miles).

USE OF FISHERY PRODUCTS. Estimated disappearance of the total supply of fishery products, both edible and nonedible, on a round-weight basis without considering beginning or ending stocks, exports, military purchases, or shipments to U.S. territories.

VESSEL. A commercial fishing craft having a capacity of 5 net tons or more. These craft are either enrolled or documented by the U.S. Coast Guard and have an official number assigned by that agency.

WHOLESALE FISH AND SHELLFISH PRICES. Those prices received at principal fishery markets by primary wholesalers (processors, importers, and brokers) for customary quantities, free on board (f.o.b.) warehouse.



AQUACULTURE

Production 24

CLAMS

Aquaculture, 24

Canned, 75

Exports, 91, 106

Frozen holdings, 78, 80

Imports, 83, 106

Landings, 3, 12, 18, 106

Supply, 106

Value of landings, 3, 12, 18

COLD STORAGE

Holdings, monthly, 78 - 81

CONSUMPTION

Canned, 110, 112

Cured, 110

Fillets and steaks, 112

Fresh and frozen, 110

Per capita, U.S., 110

Per capita, use, 113

Salmon, canned, 112

Sardines, canned, 112

Shellfish, canned, 112

Shrimp, 112

Sticks and portions, 112

Tuna, canned, 112

World, 114

CRABS

Canned, 75, 104

Exports, 91, 96, 104

Frozen holdings, 79, 81

Imports, 83, 104

Landings, 3, 12, 18, 21, 22

Supply, 104

Value of landings, 3, 12, 18, 21, 22

World catch, 70

CRAFT, FISHINGNumber, by region and
state, 121**DISPOSITION OF LANDINGS**

United States, 5

World, 70

EMPLOYMENT

Processors and wholesalers, 121

Region and State, 121

EXPORTS

All fishery products, 91

Crabs, 91, 96

Crabmeat, 91, 96

Continent and country, by, 93

Cured, 91

Edible, by years, 92

Fish meal, 91, 97, 108

Herring, 91

Nonedible, by years, 92

Oils, 91, 97, 108

Principal items, 91

Salmon, canned, 91, 95, 103

Salmon, whole or eviscerated,
91, 95

Sardines, canned, 91, 103

Shrimp, canned, 91, 94, 107

Shrimp, domestic and foreign
products, 94, 107Shrimp, fresh and frozen,
91, 94

Snow (tanner) crab, 104

Value, by years, 92

Volume, by years, 92

World, by country, 71

FLOUNDERS

Fillets, 74

Frozen holdings, 78

Landings, 1, 8, 14

Value of landings, 1, 8, 14

GROUNDFISH FILLETS**AND STEAKS**

Exports, 91

Fillets, supply, 101

Imports, 83, 101

HALIBUT

Fillets and steaks, 74

Frozen holdings, 78

Landings, 1, 9, 15

Value of landings, 1, 9, 15

HERRING, SEA

Canned (sardines), 75

Consumption (sardines), per
capita, 112

Landings, 1, 9, 15

Exports (sardines), 91

Imports (sardines), 83

HERRING, SEA - Continued

Value of landings, 1, 9, 15

World catch, 70

IMPORTS

All fishery products, 83, 84

Blocks and slabs, 83, 86

Clams, canned, 83

Continent and country, by, 85

Crabmeat, canned, fresh and
frozen, 83, 104

Cured, 83

Edible, 83, 84, 85, 100, 101

Fillets, groundfish, 83, 86

Fillets, other than groundfish
and ocean perch, 83

Finfish, 100

Groundfish, 83, 86, 101

Herring, canned, 83

Industrial, 99, 100

Lobsters, canned, 83

Lobsters, fresh and frozen, 83

Meal and scrap, 83, 86

Nonedible, 83, 84, 85

Oils, 83, 106

Oysters, canned, 83

Principal items, 83

Quota, canned tuna, not in
oil, 87

Salmon, canned, 83, 103

Salmon, fresh and frozen, 83

Sardines, canned, 83, 103

Scallop meats, 83, 106

Shellfish, 110

Shrimp, by country, 88

Shrimp, by products, 89

Tuna, canned, 83, 87, 103

Tuna, fresh and frozen, 83, 102

Value, by years, 84

Volume, by year, 84

World, by country, 71

INSPECTIONEstablishments and amount
inspected, 123**LANDINGS**

Disposition, 5

Foreign shores, off, 8, 14

Human food (edible), 5

Industrial, 5

(Reference gives page number)

LANDINGS

Months, by, 5
Ports, major U.S., 7
Record year, by states, 6
Species, 1, 8, 14
State and region, current, 6
Territory, 20
U.S. shores, distance from, 8, 13
Whiting, historical by state, 26
World, 67, 68, 69, 70

LOBSTERS, AMERICAN

Imports, 83, 105
Landings, 3, 12, 18, 105
Supply, 105
Value of landings, 3, 12, 18

LOBSTER, SPINY

Frozen holdings, 79, 81
Imports, 83, 105
Landings, 3, 12, 18, 21, 22, 105
Supply, 105
Value of landings, 3, 12, 18, 21, 22

MACKERELS

Landings, 9, 15, 20
Value of landings, 9, 15, 20
World catch, 70

MAGNUSON FISHERY

CONSERVATION AND

MANAGEMENT ACT (MFCMA)

Fishery Management Plan, 125
Fees, foreign fishing, 124
General description, 124
Optimum yield by species, 127
Regional Fishery Management Councils, 126

MEAL AND SCRAP

Exports, 91, 97
Imports, 83, 89
Landings, disposition, 5
Mackerel, 76
Menhaden, 76
Production, U.S., 76
Supply, 108
Tuna, 76
World disposition, 70

MENHADEN

Landings, 1, 9, 15
Meal, 76
Oil, 76
Value of landings, 1, 9, 15

OIL

Exports, 91, 108
Imports, 83, 108
Menhaden, 76
Production, 76
Supply, 108
World disposition, 70

OYSTERS

Aquaculture, 24
Canned, 75
Imports, 83, 106
Landings, 3, 12, 18, 20
Supply, 106
Value of landings, 3, 12, 18, 20
World catch, 70

PLANTS AND FIRMS

Employment, 121
Processors and wholesalers, 121

PRICES

Exvessel index, 117

PROCESSING

Animal food and bait, canned, 73, 75
Canned products, 75, 89, 91, 92
Clams, canned, 75
Crabs, canned, 75, 104
Employment in, 121
Fillets and steaks, fresh and frozen, 74
Frozen holdings, 78 - 81
Industrial products, 76
Meal, oil, 73, 76
Oysters, canned, 75
Plants, number of, 121
Salmon canned, 75
Sardines, canned, 75
Shrimp, canned, 75
Sticks, portions, and breaded shrimp, 73

RECREATIONAL FISHERIES

Atlantic & Gulf Statistics:

Catch (number) by species and sub-region, 38 - 43
Catch (weight) by species and sub-region, 44 - 49
Catch (number) by species and area, 53 - 56
Catch (weight) by species and area, 57 - 60
Participants (number) by sub-region and state, 35
Fishing trips (number) by sub-region and state, 36

Pacific Statistics:

Catch (number) by species, 50 - 51
Catch (weight) by species, 51 - 52
Catch (number) by species and fishing area, 61 - 63
Catch (weight) by species and fishing area, 63 - 65
Participants (number) by sub-region and state, 37
Fishing trips (number) by sub-region and state, 37

U.S., Total:

Participants by coast, 37
Fishing trips by coast, 37
Sampling coverage, 28

SALMON

Aquaculture, 24
Canned, 75, 103
Consumption, per capita, 112
Exports, 91, 95
Fillets and steaks, 74
Frozen holdings, 78, 80
Imports, 83
Landings, 2, 10, 16
Supply, canned, 103
Value of landings, 2, 10, 16
World catch, 70

SARDINES

Canned, 75, 103
Consumption, per capita, 112
Exports, 91, 103
Imports, 83, 103
Landings, 2, 10, 16
Supply, canned, 103
World catch, 70

SCALLOPS

Exports, 91, 106
Imports, 83, 106
Landings, 4, 13, 19
Supply, 106
Value of landings, 4, 13, 19
World catch, 70

SHRIMP

Aquaculture, 24
Breaded, 73
Canned, 75, 83, 107
Consumption, per capita, 112
Exports, 91, 94, 107
Frozen holdings, 74, 81
Imports, 83, 88, 89, 107
Landings, head-off, 107
Landings, head-on, 4, 13, 19
Supply, canned, 107
Supply, total, 107
Value of landings, 4, 13, 19
World catch, 70

SUPPLY

All fishery products, 99, 100
Blocks, 101
Clam meats, 106
Crabs, 104
Crabmeat, 104
Edible fishery products, 99, 100
Fillets and steaks, all, 101
Fillets and steaks, groundfish, 101
Finfish, 100
Industrial products, 99, 100
Lobsters, American, 105
Lobsters, spiny, 105
Meal, 108
Meal and solubles, 108
Oils, 108
Oysters, 106
Salmon, canned, 103
Sardines, canned, 103
Scallop meats, 106

SUPPLY- Continued

Shellfish, 100
Shrimp, 107
Tuna, 102

SWORDFISH

Landings, 3, 11, 17
Value of landings, 3, 11, 17

TUNA

Canned, 75, 83, 87
Consumption, per capita, 112
Exports, 91
Imports, 83, 87, 102
Landings, 3, 11, 17, 20, 22
Meal, 76
Quota, imports, canned, 87
Supply, canned, 103
Value of landings, 3, 11, 17, 20, 22
World catch, 70

USE

Per capita, 113
Landings, by month, 5
Valued added, 119

WHITING

Frozen holdings, 78, 80
Historical landing by state, 26
Landings, 1, 9, 15
Value of landings, 1, 9, 15

WORLD FISHERIES

Catch by countries, 68
Catch by continents, 69
Catch by major fishing areas, 69
Catch by species groups, 70
Catch by years, 67
Consumption, 114
Disposition, 70
Imports and exports value, 71

Federal Inspection Marks for Fishery Products

NATIONAL FISHERY PRODUCTS INSPECTION PROGRAM. The U.S. Department of Commerce (USDC), National Marine Fisheries Service, a part of the National Oceanic and Atmospheric Administration, conducts a voluntary seafood inspection program on a fee-for-service basis. A HACCP-based service is also available. Services provided by the program include vessel and plant sanitation, product inspection and grading, label reviews, product specification reviews, laboratory analyses, training, education and information. Inspection and certification services are available nationwide and in U.S. territories for all interested parties. Consultative services are provided in foreign countries. Inspection and certification services are also provided for imported and exported products. The USDC Seafood Inspection Division also provides HACCP training, plan development, implementation assistance, and verification service to industry (domestic and foreign) for the purpose of demonstrating compliance with FDA's HACCP rule (21 CFR Parts 123 and 1240) regarding "Procedures for the Safe and Sanitary Processing and Importing of Fish and Fishery Products" which was implemented December 18, 1997.

USERS OF INSPECTION SERVICES. The users of the voluntary seafood inspection service include vessel owners, processors, distributors, brokers, retailers, food service operators, exporters, importers, and those who have a financial interest in buying and selling seafood products. The U.S. Department of Agriculture recommends that USDC inspected products be purchased for its food feeding programs. The **USDC APPROVED LIST OF FISH ESTABLISHMENTS AND PRODUCTS**, published bi-annually, provides a listing of products and participants who contract with USDC.

USDC INSPECTION MARKS. These marks designate the level and the type of inspection performed by the federal inspector. The marks can be used in advertising and labeling under the guidelines provided by the Seafood Inspection Division and in accordance with federal and state regulations regarding advertising and labeling. Products bearing the USDC official marks have been certified as being safe, wholesome, and properly labeled.

"US GRADE A" MARK. The U.S. GRADE A mark signifies that a product has been processed under federal inspection in an approved facility and meets the established level of quality of an existing U.S. grade standard. The U.S. Grade A mark indicates that the product is of high quality, uniform in size, practically free from blemishes and defects, in excellent condition and possessing good flavor and odor.

"PROCESSED UNDER FEDERAL INSPECTION" MARK. The PUF mark or statement signifies that the product has been inspected in an approved facility and was found to be safe, wholesome and properly labeled according to approved specifications or criteria. The language within the PUF mark has been amended to "Processed Under Federal Inspection" to reflect actual inspection procedures and the regulatory requirements for use of the mark.

"LOT INSPECTED" MARK. A new USDC Lot Inspected mark was created to replace the "Officially Sampled" and "Accepted Per Specifications" lot inspection marks used on retail labels. The latter marks were no longer allowed/accepted after September 30, 1997. The use of the new mark meets the needs of both industry and consumers by conveying that the products bearing the mark have been examined by the USDC Program.

"RETAIL" MARK. In response to requests made by industry, a new mark has been created for retail or food service establishments. Participants qualify for use of the "Retail Mark" by receiving the USDC HACCP-based service or being under contract for sanitation services and associated product evaluation. Usage of such a mark will give the retail industry the opportunity to advertise on their banners, logos, or menus that their facility has been recognized by USDC for proper sanitation and handling of fishery products.



USDC HACCP MARK. The USDC HACCP-based service is available to all interested parties on a fee-for-service basis. Label approval, record keeping and analytical testing are program requirements. An industry USDC-certified employee trained in HACCP principles is also required for each facility/site in the program. Compliance ratings determine frequency of official visits. Benefits to participants include increased controls through a more scientific approach, use of established marks, increased efficiency of federal inspection personnel, and enhanced consumer confidence. The USDC has made available a HACCP mark and a "banner" to distinguish products that have been produced under the HACCP-based program. The HACCP banner must be used as an attachment to existing inspection grade marks. Establishments meeting HACCP program requirements may use these marks in conjunction with promotional material, packaging, point-of-sale notices, and menus.

FOR FURTHER INFORMATION:

U.S. Department of Commerce, NOAA/NMFS
Seafood Inspection Division - F/SF6
1315 East-West Highway
Silver Spring, MD 20910
(301) 713-2355 (FAX: 713-1081)
Toll Free: 1-800-422-2750

Internet: <http://seafood.ssp.nmfs.gov/iss/Issue.html>

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service, F/ST1
1315 East West Highway -
Silver Spring, MD 20910-3282

OFFICIAL BUSINESS

Current Fishery Statistics No. 9800

Fisheries of the United States, 1998

July 1999



**U.S. DEPARTMENT
OF COMMERCE**

**National Oceanic and
Atmospheric Administration**

**National Marine
Fisheries Service**

Fisheries of the United States, 1998

Prepared by:
Fisheries Statistics and Economics Division

Mark C. Holliday, Chief
Barbara K. O'Bannon, Editor

Silver Spring, MD
July 1999



U.S. DEPARTMENT OF COMMERCE

William Daley, Secretary

National Oceanic and Atmospheric Administration

D. James Baker, Under Secretary

National Marine Fisheries Service

Penelope D. Dalton, Assistant Administrator

FISHERIES OF THE UNITED STATES, 1998

This publication is a preliminary report for 1998 on commercial and recreational fisheries of the United States with landings from the U.S. territorial seas, U.S. Exclusive Economic Zone (EEZ), and on the high seas. This annual report provides timely answers to frequently asked questions.

SOURCES OF DATA

Information in this report came from many sources. Field offices of the National Marine Fisheries Service (NMFS), in cooperation with various States, collected and compiled data on U.S. commercial landings and processed fishery products. The NMFS Fisheries Statistics and Economics Division in Silver Spring, MD, managed the collection and compilation of recreational statistics, and tabulated and prepared all data for publication. Sources of other data appearing in this publication are: U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Coast Guard, U.S. Customs Service, U.S. Department of the Interior, U.S. Department of Agriculture, and the Food and Agriculture Organization (FAO) of the United Nations.

PRELIMINARY AND FINAL DATA

Data on U.S. commercial landings, employment, prices, production of processed products, and recreational catches are preliminary for 1998. Final data will be published in other NMFS Current Fishery Statistics publications.

The Fisheries Statistics and Economics Division of NMFS takes this opportunity to thank states, industry, and foreign nations who provided the data that made this publication possible.

Program leaders of the field offices were: Gregory Power, New England, Middle Atlantic, and Chesapeake; Scott Nelson, National Biological Service Science Center, Great Lakes States; Nelson Johnson, Guy Davenport, Maggie Bourgeois, and Margot Hightower for the South Atlantic and Gulf States; Patricia J. Donley, California and Hawaii; John K. Bishop, Oregon and Washington; and David Ham, Alaska.

NOTES

The time series of U.S. catch by species and distance from shore included in this year's "Fisheries of the U.S." is estimated by the National Marine Fisheries Service.

As in past issues of this publication, the units of quantity and value are defined as follows unless otherwise noted: U.S. landings are shown in round weight (except mollusks which are in meat weight); quantities shown for U.S. imports and exports are in product weight, as reported by the U.S. Bureau of the Census; the value of the U.S. domestic commercial landings is exvessel in the Review Section on important species actual and deflated exvessel prices are shown. The deflated value was computed using the Gross Domestic Products Implicit Price Deflator; the value for U.S. imports is generally the market value in the foreign (exporting) country and, therefore, excludes U.S. import duties, freight charges from the foreign country to the United States, and insurance; the value for exports is generally the value at the U.S. port of export, based on the selling price, including inland freight, insurance, and other charges. Countries and territories shown in the U.S. foreign trade section are established for statistical purposes in the Tariff Schedules of the United States Annotated (International Trade Commission) and reported by the U.S. Bureau of the Census.

SUGGESTIONS

The Fisheries Statistics and Economics Division wishes to provide the kinds of data sought by users of fishery statistics, and welcomes comments or suggestions that will improve this publication.

Address all comments or questions to:

Fisheries Statistics and Economics
Division, (F/ST1)
National Marine Fisheries Service, NOAA
1315 East-West Highway - Rm. 12340
Silver Spring, MD 20910-3282
PHONE: 301-713-2328
FAX: 301-713-4137

Members of the Fisheries Statistics and Economics Division in Silver Spring who helped with this publication were: Daryl Bullock, Rita Curtis, Kim Dawson, Josanne Fabian, Karen Foster, Amy Gautam, Kirk Gillis, Laurie Hamilton, Emily Hanson, Rob Hicks, John Hoey, Deborah Hogans, Mark Holliday, Steven Koplin, Alan Lowther, Terri Muller, Sharon Newman, Barbara O'Bannon, Maury Osborn, Liz Pritchard, Warren Schlechte, David Sutherland, Glen Taylor, William Uttley, David Van Voorhees, John Ward, and Lelia Wise. Summer students Michelle Carhart, Elinor Lichtenberg, and Melissa Millikin also assisted.

CONTENTS

	Page		Page
PREFACE AND ACKNOWLEDGEMENT	ii	U. S. SUPPLY:	
REVIEW	iv	Finfish and shellfish	77
U. S. COMMERCIAL FISHERY LANDINGS:		All fillets and steaks	79
Species	1	Groundfish fillets and steaks	79
Disposition	5	Tuna, fresh and frozen	80
Regions and states	6	Canned sardines	81
Ports	7	Canned salmon	81
Catch by species and distance-from- shore		Canned tuna	81
(thousand pounds)	8	King crab	82
Catch by species and distance-from- shore		Snow (tanner) crab	82
(metric tons)	14	Canned crabmeat	82
U. S. Landings for territorial possessions	20	Lobster, American	83
U. S. Aquaculture production, estimated 1992-1997	23	Lobster, spiny	83
U.S. MARINE RECREATIONAL FISHERIES:		Clams	84
Harvest by species	29	Oysters	84
Harvest by mode of fishing and species group	32	Scallops	84
Harvest by distance-from-shore and species group	36	Shrimp	85
Harvest and total live releases by species group	40	Industrial	86
Finfish harvest and releases by state	45	PER CAPITA:	
Number of anglers and trips by state	46	U.S. Consumption	87
WORLD FISHERIES:		Canned products	89
Aquaculture and commercial catch	47	Certain items	89
Countries	48	World, by region and country	90
Continents	49	U.S. Use	92
Fishing areas	49	VALUE ADDED	93
Species groups	50	PRICES, INDEX OF EXVESSEL	94
Disposition	50	EMPLOYMENT, CRAFT, AND PLANTS	96
Imports and exports, by leading countries	51	FISHERY PRODUCTS INSPECTION	98
U. S. PRODUCTION OF PROCESSED FISHERY PRODUCTS:		MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT OF 1976 (MFCMA):	
Value	53	General	100
Fish sticks, fish portions, and breaded shrimp	53	Optimum yield, U S capacity, reserve, and allocations	103
Fillets and steaks	54	GENERAL ADMINISTRATIVE INFORMATION - NATIONAL MARINE FISHERIES SERVICE	
Canned	55	Administrative Offices	104
Industrial	57	Region Offices	106
U. S. COLD STORAGE HOLDINGS	58	Statistical Port Agents	108
U. S. IMPORTS:		PUBLICATONS:	
Principal items	63	NOAA Library Services	110
Edible and nonedible	64	Government Printing Office	110
Continent and country	65	National Marine Fisheries Service -- National Technical Information Service	111
Blocks	66	SERVICES:	
Groundfish fillets and steaks, species	66	National Marine Fisheries Service:	
Canned tuna and quota	67	NMFS HomePages	118
Shrimp, country of origin	68	FAX-on-Demand	120
Shrimp, by product type	69	Sea Grant Marine Advisory	122
Industrial	69	Inspection	Inside back cover
U. S. EXPORTS:		GLOSSARY	124
Principal items	70	INDEX	128
Edible and nonedible	71		
Continent and country	72		
Lobsters	73		
Shrimp	73		
Salmon	74		
Surimi	74		
Crab	75		
Crabmeat	75		
Industrial	76		

REVIEW

U.S. LANDINGS. Commercial landings (edible and industrial) by U.S. fishermen at ports in the 50 states were 9.2 billion pounds or 4.2 million metric tons valued at \$3.1 billion in 1998--a decrease of 649.3 million pounds (down 7 percent) and a decrease of \$319.1 million (down 9 percent) compared with 1997. The volume of 1998 U.S. landings decreased, especially in Pacific waters affected by El Niño, for the following major species: cod, yellowfin flounder, herring, rockfish, squid and seaweed (kelp). The decreased value in 1998 was associated with decreased landings of several major species and lower prices for cod, herring, menhaden, pollock (walleye), tuna and some species of flounders. Finfish accounted for 86 percent of the total landings, but only 46 percent of the value. The 1998 exvessel price paid to fishermen was 34 cents compared to 35 cents in 1997.

Commercial landings by U.S. fishermen at ports outside the 50 states or transferred onto foreign vessels (joint ventures) provided an additional 400.8 million pounds (181,800 metric tons) valued at \$165.9 million. This was a 6 percent, or 22.2 million pounds (10,100 metric ton) increase in quantity, but a decrease of \$19.6 million (23 percent) in value compared with 1997. Most of these landings consisted of halibut, sea herring, Atlantic mackerel, snapper and tuna landed in Canada, Puerto Rico, American Samoa and other foreign ports.

Edible fish and shellfish landings in the 50 states were 7.2 billion pounds (3.3 million metric tons) in 1998--a decrease of 75 million pounds (34,000 metric tons) compared with 1997.

Landings for reduction and other industrial purposes were 2.0 billion pounds (916,500 metric tons) in 1998--a decrease of 22 percent compared with 1997.

The 1998 U.S. marine recreational finfish catch (including fish caught and released alive (discarded)) on the Atlantic, Gulf, and Pacific coasts

was an estimated 312.3 million fish taken on an estimated 60.3 million fishing trips. The harvest (fish kept) was estimated at 135.5 million fish weighing 194.7 million pounds.

There were significant reductions in the 1998 landings of many Pacific coast fisheries that may be associated with El Niño. The 1997-98 El Niño was the strongest on record and had spectacular impacts on weather, marine ecosystems and fisheries. El Niño, Spanish for little boy or Christ child, is the name associated with the appearance of unusually warm eastern and central tropical Pacific ocean waters. The El Niño phenomena results from interactions between the surface layers of the ocean and atmospheric circulation. During an El Niño the western Pacific trade winds are weak and don't produce the upwelling of cool, nutrient rich waters in the eastern Pacific. This causes a rise in sea surface temperature which reduces primary productivity, adversely affecting higher trophic levels of the food chain including commercial fisheries. Ocean temperatures averaging 4-8 degrees F above normal were recorded in an area exceeding 9.5 million square miles during one El Niño month. These anomalies force fish to migrate in search of cooler waters and food. Many fish, unable to migrate, die from lack of food or unbearable temperature elevation. Those species that are able to migrate may also suffer because of drastic temperature changes when they are in water not affected by El Niño. These temperature- and food-driven changes in species distributions result in marlin, swordfish, mackerel and turtles being caught in waters they normally do not inhabit such as off of the Pacific northwest coast of the U.S.

WORLD LANDINGS. In 1997, the most recent year for which data are available, world commercial fishery landings and aquaculture were 122.1 million metric tons--an increase of 2.2 million metric tons (up 2 percent) compared with 1996.

REVIEW

China was the leading nation with 28.7 percent of the total harvest; Peru, second with 6.4 percent; Japan third with 5.5 percent; Chile, fourth with 5.0 percent; and United States, fifth with 4.5 percent.

PRICES. The 1998 annual exvessel price index for edible fish and shellfish declined 5 percent while industrial fish remained unchanged when compared with 1997. Exvessel price indices decreased for 20 of the 33 species groups being tracked, increased for 10 species groups and were not calculated for calico scallops. The snow crab price index had the largest increase (29 percent) while the 'other shrimp' price index showed the largest decrease (147 percent).

PROCESSED PRODUCTS. The estimated value of the 1998 domestic production of edible and nonedible fishery products was \$7.4 billion, \$748.3 million less than the \$8.1 billion in 1997. The value of edible products was \$6.8 billion--a decrease of \$748.4 million compared with 1997. The value of industrial products was \$579.1 million in 1998--an increase of \$39,000 compared with 1997.

FOREIGN TRADE. The total import value of edible and nonedible fishery products was \$15.6 billion in 1998--an increase of \$1.1 billion compared with 1997. Imports of edible fishery products (product weight) were 3.6 billion pounds (1.7 million metric tons) valued at \$8.2 billion in 1998--an increase of 308.2 million pounds and \$418 .9 million compared with 1997. Imports of nonedible (i.e., industrial) products were \$7.4 billion--an increase of \$685.4 million compared with 1997.

Total export value of edible and nonedible fishery products was \$8.7 billion in 1998--a decrease of \$648.2 million compared with 1997. United States firms exported 1.7 billion pounds (766,100 metric tons) of edible products valued at \$2.3 billion--a decrease of 329.9 million pounds, and \$445.1 million compared with 1997. Exports of nonedible products were valued at \$6.4 billion, \$203.1 million less than 1997.

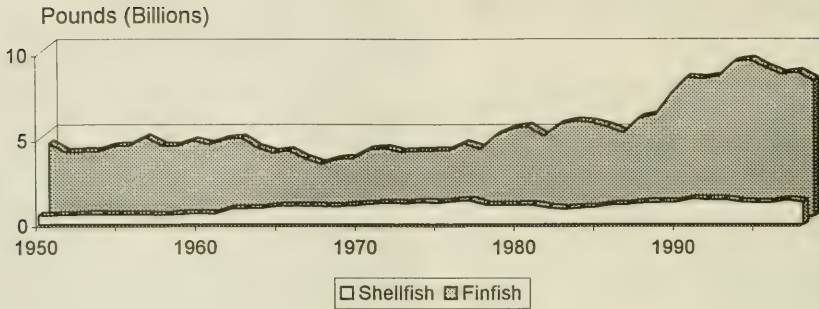
SUPPLY. The U.S. supply of edible fishery products (domestic landings plus imports, round weight equivalent, minus exports) was 10.5 billion pounds (4.7 million metric tons) in 1998--an increase of 1.4 billion pounds (15 percent) compared with 1997. The supply of industrial fishery products was 1.5 billion pounds (700 million metric tons) in 1998--a decrease of 939.0 million pounds (38 percent) compared with 1997.

PER CAPITA CONSUMPTION. U.S. consumption of fishery products was 14.9 pounds of edible meat per person in 1998, up 0.3 pound from the 1997 per capita consumption of 14.6 pounds.

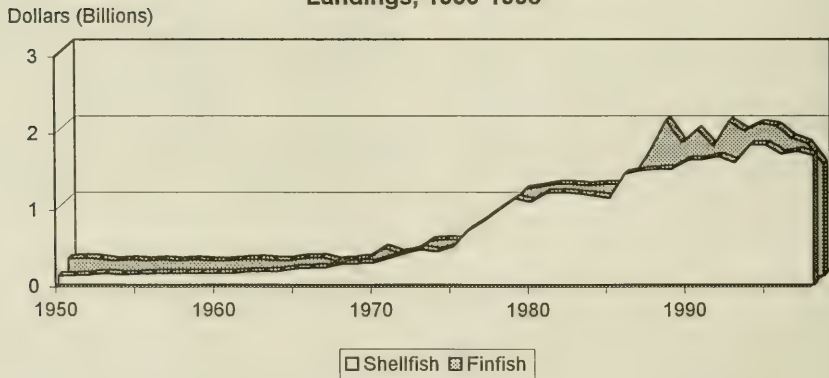
CONSUMER EXPENDITURES. U.S. consumers spent an estimated \$49.3 billion for fishery products in 1998. The 1998 total includes \$32.4 billion in expenditures at food service establishments (restaurants, carry-outs, caterers, etc.); \$16.6 billion in retail sales for home consumption; and \$250.9 million for industrial fish products. By producing and marketing a variety of fishery products for domestic and foreign markets, the commercial marine fishing industry contributed \$25.4 billion (in value added) to the U.S. Gross National Product.

REVIEW

Volume Of U.S. Domestic Finfish & Shellfish Landings, 1950-1998



Value Of U.S. Domestic Finfish & Shellfish Landings, 1950-1998



REVIEW

OTHER IMPORTANT FACTS

Alaska led all states in volume with landings of 4.9 billion pounds, followed by Louisiana, 1.1 billion; Virginia, \$91.9 million; Washington, 419.0 million; and California, 336.1 million pounds.

Alaska led all states in value of landings with \$951.5 million, followed by Louisiana, \$291.9 million; Maine, \$216.4 million; Massachusetts, \$204.4 million; and Florida, \$188.6 million.

Dutch Harbor-Unalaska, Alaska, was the leading U.S. port in quantity of commercial fishery landings, followed by: Reedville, Virginia; Kodiak, Alaska; Empire-Venice, Louisiana; Seattle, Washington, and Cameron, Louisiana.

Dutch Harbor-Unalaska was also the leading U.S. port in terms of value, followed by: New Bedford, Massachusetts; Kodiak, Alaska; Brownsville-Port Isabel, Texas; and Honolulu, Hawaii.

Tuna landings by U.S.-flag vessels at ports outside the continental United States amounted to 394.5 million pounds. Halibut, snapper, Atlantic mackerel, and sea herring also were landed at ports outside the United States or transferred to foreign vessels (joint ventures) in U.S. waters.

Major U.S. Domestic Species Landed in 1998 - Ranked By Quantity and Value (Numbers in thousands)

<u>Rank</u>	<u>Species</u>	<u>Pounds</u>	<u>Rank</u>	<u>Species</u>	<u>Dollars</u>
1	Pollock (walleye)	2,716,458	1	Shrimp	515,616
2	Menhaden	1,705,677	2	Crabs	473,378
3	Salmon	644,434	3	Lobsters	278,016
4	Cod	580,507	4	Salmon	257,456
5	Crabs	552,716	5	Pollock (walleye)	190,152
6	Hakes	542,761	6	Clams	135,237
7	Flounders	391,178	7	Cod	113,191
8	Shrimp	277,757	8	Menhaden	103,836
9	Herring (sea)	272,017	9	Flounders	96,802
10	Clams	107,959	10	Tuna	94,462

REVIEW

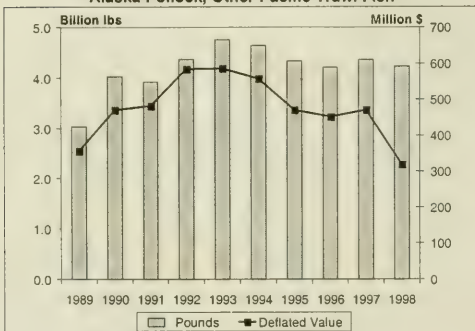
IMPORTANT SPECIES

ALASKA POLLOCK AND OTHER PACIFIC TRAWL

FISH. U.S. landings of Pacific trawl fish (Pacific cod, flounders, hake, Pacific ocean perch, Alaska pollock, and rockfishes) were 4.2 billion pounds valued at \$358.9 million--a decrease of 3 percent in quantity and a 32 percent decrease in value compared with 1997.

Landings of Alaska pollock increased 8 percent to 2.7 billion pounds but were 5 percent lower than the 1993 - 1997 5 - year average. Landings of Pacific cod were 556.0 million pounds -- a decrease of 16 percent from 661.3 million pounds in 1997. Pacific hake (whiting) landings were 501.6 million pounds (up less than 1 percent) valued at \$19.9 million (down 27 percent) compared to 1997. Landings of rockfishes were 70.1 million pounds (down 40 percent) and valued at \$33.0 million (down 31 percent) compared to 1997. The 1998 rockfish landings were 32 percent lower than the 5-year average.

Trend in Commercial Landings, 1989 - 1998
Alaska Pollock, Other Pacific Trawl Fish



ANCHOVIES. U.S. landings of anchovies were 3.4 million pounds--a decrease of 9.3 million pounds (73 percent) compared with 1997. Twenty-seven percent of all landings were used for animal food or reduction and 73 percent were used for bait.

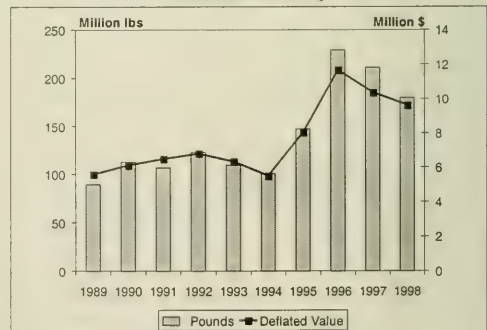
HALIBUT. U.S. landings of Atlantic and Pacific halibut were 73.3 million pounds (round weight) valued at \$104.0 million--an increase of 3.4 million pounds (5 percent), but a decrease of \$13.4 million (11 percent) compared with 1997. The Pacific fishery accounted for

all but 18,000 pounds of the 1998 total halibut catch. The average exvessel price per pound in 1998 was \$1.42 compared with \$1.68 in 1997.

HERRING, SEA. U.S. commercial landings of sea herring were 272.0 million pounds valued at \$21.6 million--a decrease of 75.9 million pounds (22 percent) and \$19.3 million (47 percent) compared with 1997. Landings of Atlantic sea herring were 179.7 million pounds valued at \$10.9 million--a decrease of 31.3 million pounds (15 percent) and \$687,000 (6 percent) compared with 1997.

Landings of Pacific sea herring were 92.3 million pounds valued at \$10.7 million--a decrease of 44.6 million pounds (33 percent) and \$18.6 million (63 percent) compared with 1997. Alaska landings accounted for 94 percent of the Pacific coast with 86.8 million pounds valued at \$9.8 million--a decrease of 28.7 million pounds (25 percent) and \$6.1 million (38 percent) compared with 1997.

Trend in Commercial Landings, 1989-1998
Atlantic Sea Herring



JACK MACKEREL. California accounted for 54 percent and Oregon for 44 percent of the U.S. landings of jack mackerel in 1998. Total landings were 3.4 million pounds valued at \$308,000--an increase of 888,000 pounds (35 percent), and \$27,000 (10 percent) compared with 1997. The 1998 average exvessel price per pound decreased to 9 cents.

REVIEW

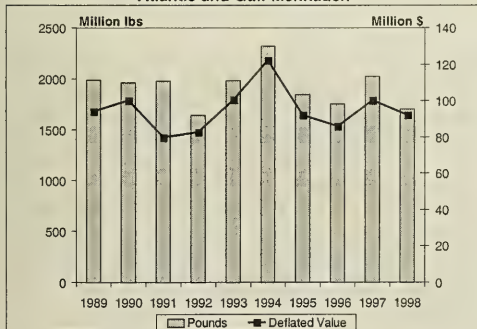
IMPORTANT SPECIES

MACKEREL, ATLANTIC. U.S. landings of Atlantic mackerel were 27.6 million pounds valued at \$4.7 million--a decrease of 64 million pounds (19 percent) and of \$4.8 million (51 percent) compared with 1997. New Jersey with 18.4 million pounds and Rhode Island with 5.8 million pounds accounted for 88 percent of the total landings. The average exvessel price per pound in 1998 was 17 cents, down from 28 cents in 1997.

MACKEREL, CHUB. Landings of Chub mackerel were 45.0 million pounds valued at \$2.5 million--an increase of 4.5 million pounds (11 percent), but a decrease of \$215,000 (8 percent) compared with 1997. The average exvessel price per pound was 6 cents, down from 7 cents in 1997.

MENHADEN. The U.S. menhaden landings were 1.7 billion pounds valued at \$103.8 million--a decrease of 322.1 million pounds (16 percent) and \$8.2 million (7 percent) compared with 1997. Landings decreased by 47.7 million pounds (7 percent) in the Atlantic states and decreased 274.4 million pounds (20 percent) in the Gulf states compared with 1997. Landings along the Atlantic coast were 609.0 million pounds valued at \$47.0 million. Gulf region landings were 1.1 billion pounds valued at \$56.9 million. Menhaden are used primarily for the production of meal, oil, and solubles. Small quantities are used for bait and animal food.

**Trend in Commercial Landings 1989-1998
Atlantic and Gulf Menhaden**



NORTH ATLANTIC TRAWL FISH. Landings of butterfish, Atlantic cod, cusk, flounders (winter/

blackback, summer/fluke, yellowtail and other), haddock, red and white hake, ocean perch, pollock and whiting (silver hake) in the North Atlantic (combination of New England, Middle Atlantic, and Chesapeake Regions) were 160.9 million pounds valued at \$120.5 million--an increase of 44.9 million pounds (39 percent) and an increase of \$12.3 million (11 percent) compared with 1997. Of these species, flounder led in total value in the North Atlantic, accounting for 48 percent of the total; followed by cod, 21 percent; and whiting, 11 percent.

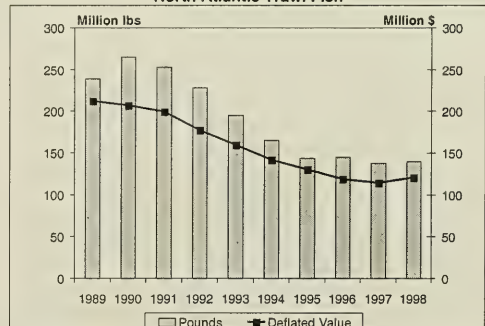
The 1998 landings of Atlantic cod were 24.5 million pounds valued at \$25.5 million--a decrease of 4.1 million pounds (14 percent), but an increase of \$1.0 million (4 percent) compared with 1997. The exvessel price per pound was \$1.04 cents in 1998, up from 85 cents per pound in 1997.

Landings of yellowtail flounder were 8.1 million pounds--an increase of 1.7 million pounds (28 percent) from 1997, and about 32 percent higher than its 5-year average.

Haddock landings increased to 6.3 million pounds (89 percent) and \$4.3 million (119 percent) compared to 1997.

North Atlantic pollock landings were 12.3 million pounds valued at \$8.1 million--an increase of 2.9 million pounds (31 percent) and \$2.8 million (51 percent) compared with 1997.

**Trend in Commercial Landings 1989-1998
North Atlantic Trawl Fish**



REVIEW

IMPORTANT SPECIES

PACIFIC SALMON. U.S. commercial landings of salmon were 644.4 million pounds valued at \$257.5 million--an increase of 76.8 million pounds (14 percent), but a decrease of \$12.9 million (5 percent) compared with 1997. Alaska and Washington accounted for 97 percent and 2 percent of the total landings, respectively. Sockeye salmon landings were 128.7 million pounds valued at \$150.8 million--a decrease of 63.7 million pounds (33 percent), and \$26.5 million (15 percent) compared with 1997. Chinook salmon landings decreased to 16.2 million pounds--down 5.5 million pounds (25 percent) from 1997. Pink salmon landings were 332.6 million pounds--an increase of 105.6 million (47 percent); chum salmon landings were 130.9 million--an increase of 27.8 million (27 percent); and coho salmon increased to 35.9 million--an increase of 12.7 million pounds (54 percent) compared with 1997.

Alaska landings were 626.1 million pounds valued at \$242.7 million--an increase of 88.2 million pounds (16 percent), but a decrease of \$5.1 million (2 percent) compared with 1997. The distribution of Alaska salmon landings by species in 1998 was: sockeye, 125.5 million pounds (20 percent); pink, 332.6 million pounds (53 percent); chum, 123.8 million pounds (20 percent); coho, 34.4 million pounds (5 percent); and chinook, 9.8 million pounds (2 percent). The exvessel price per pound for all species in Alaska was 39 cents in 1998--a decrease of 8 cents from 1997.

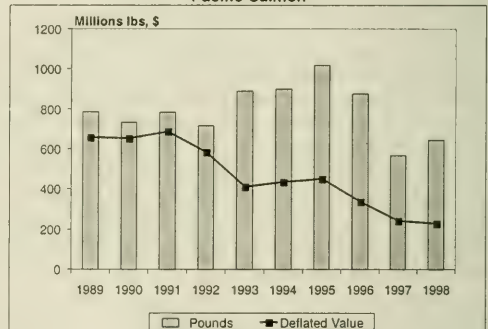
Washington salmon landings were 13.9 million pounds valued at \$9.1 million--a decrease of 6.8 million pounds (33 percent), and \$3.2 million (26 percent) compared with 1997. The biennial fishery for pink salmon went from 7.1 million pounds in 1997 to 3,000 pounds in 1998. Washington landings of sockeye salmon were 3.2 million pounds (down 53 percent); followed by chum salmon, 7.2 million pounds--an increase of 3.0 million pounds (up 70 percent); silver, 1.5 million pounds (up 85 percent); and chinook, 2.0 million pounds (up 16 percent) compared with 1997. The average exvessel price per pound for all species in Washington increased from 59 cents in 1997 to 66 cents in 1998.

Oregon salmon landings were 1.8 million pounds valued at \$2.5 million--a decrease of 457,000

pounds (20 percent) and \$303,000 (11 percent) compared with 1997. Only chinook salmon were landed in 1998; chum, pink, and silver salmon landings were not reported. The average exvessel price per pound for chinook salmon in Oregon increased from \$1.24 in 1997 to \$1.39 in 1998.

California salmon landings were 2.1 million pounds valued at \$3.0 million -- a decrease of 4.0 million pounds (65 percent) and \$4.3 million (59 percent) compared with 1997. Landings of chinook salmon were 2.1 million pounds; coho landings were 1,000 pounds. The average exvessel price per pound paid to fishermen in 1998 was \$1.44 compared with \$1.20 in 1997.

Trend in Commercial Landings 1989-1998
Pacific Salmon



SABLEFISH. U.S. commercial landings of sablefish were 43.5 million pounds valued at \$91.8 million--a decrease of 9.4 million pounds (18 percent) and a decrease of \$17.0 million (16 percent) compared with 1997. Landings decreased in Alaska to 33.5 million pounds, a decrease of 5 percent compared with 1997. Landings decreased in Washington to 2.9 million pounds (42 percent) and \$3.9 million (down 60 percent). The 1998 Oregon catch was 3.9 million pounds (down 40 percent) and \$4.6 million (down 56 percent) compared with 1997. California landings of 3.2 million pounds and \$3.3 million represent a 50 percent decrease in quantity and a 63 percent decrease in value from 1997. The average exvessel price per pound in 1998 was \$2.11 compared with \$2.06 in 1997.

REVIEW

IMPORTANT SPECIES

TUNA. Landings of tuna by U.S. fishermen at ports in the 50 United States, Puerto Rico, American Samoa, other U.S. territories, and foreign ports were 479.4 million pounds valued at \$257.2 million--an increase of 22.8 million pounds (5 percent), but a decrease of \$37.1 million (13 percent) compared with 1997. The average exvessel price per pound of all species of tuna in 1998 was 54 cents compared with 64 cents in 1997.

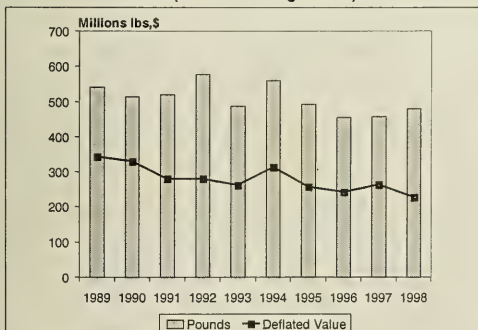
Bigeye landings in 1998 were 17.6 million pounds--an increase of 2.9 million pounds (20 percent) compared with 1997. The average exvessel price per pound was \$1.64 in 1998 compared with \$1.69 in 1997.

Skipjack landings were 272.6 million pounds--an increase of 25.4 million pounds (10 percent) compared with 1997. The average exvessel price per pound was 38 cents in 1998, compared to 45 cents in 1997.

Yellowfin landings were 136.5 million pounds--a decrease of 5.1 million pounds (4 percent) compared with 1997. The average exvessel price per pound was 57 cents in 1998 compared with 72 cents in 1997.

Bluefin landings were 6.7 million pounds--a decrease of 605,000 pounds (8 percent) compared with 1998. The average exvessel price per pound in 1998 was \$2.32 compared with \$2.78 in 1997.

**Trend in Commercial Landings 1989-1998
Tuna (U.S. and Foreign Ports)**



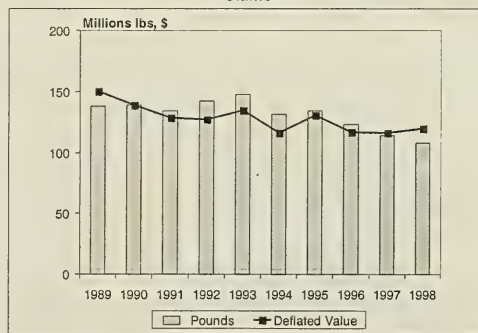
CLAMS. Landings of all species yielded 108.0 million pounds of meats valued at \$135.2 million--a decrease of

6.2 million pounds (5 percent), but an increase of \$5.6 million (4 percent) in value compared with 1997. The average exvessel price per pound in 1998 was \$1.25 compared with \$1.14 in 1997.

Surf clams yielded 54.0 million pounds of meats valued at \$29.2 million--a decrease of 3.9 million pounds (7 percent) and \$6.0 million (17 percent) compared with 1997. New Jersey was the leading state with 44.8 million pounds (down 2 percent), followed by New York, 3.9 million pounds (down 44 percent) and Maryland, 3.8 million pounds (down 4 percent) compared with 1997. The average exvessel price per pound of meats was 54 cents in 1998, down 7 cents from 1997.

The ocean quahog fishery produced 39.9 million pounds of meats valued at \$18.4 million--a decrease of 4.0 million pounds (9 percent) and \$1.6 million (8 percent) compared with 1997. New Jersey had landings of 15.7 million pounds (down 14 percent) valued at \$6.7 million (down 12 percent) while Massachusetts production was 19.2 million pounds (down 6 percent) valued at \$8.0 million (down 6 percent). Together, they accounted for 88 percent of the total ocean quahog production in 1998. The average exvessel price per pound of meats increased from 45 cents in 1997 to 46 cents in 1998.

**Trend in Commercial Landings 1989-1998
Clams**



The hard clam fishery produced 7.2 million pounds of meats valued at \$41.8 million--a decrease of 514,000 pounds (7 percent) and \$90,000 (less than 1 percent) compared with 1997. Landings in the New

REVIEW

IMPORTANT SPECIES

England region were 2.5 million pounds of meats (up 67 percent); Middle Atlantic, 3.2 million pounds (down 30 percent); Chesapeake, 543,000 pounds (down 21 percent); and the South Atlantic region, 1.0 million pounds (up 4 percent). The average exvessel price per pound of meats increased from \$5.43 in 1997 to \$5.81 in 1998.

Soft clams yielded 2.8 million pounds of meats valued at \$12.2 million--an increase of 516,000 pounds (22 percent) and \$2.3 million (23 percent) compared with 1997. Maine was the leading state with 2.4 million pounds of meats (up 34 percent), followed by Maryland, 219,000 pounds (down 4 percent) and New York with 208,000 pounds (down 23 percent). The average exvessel price per pound of meats was \$4.35 in 1998, compared with \$4.32 in 1997.

CRABS. Landings of all species of crabs were 552.7 million pounds valued at \$473.4 million--an increase of 122.8 million pounds (29 percent) and \$43.8 million (10 percent) compared with 1997.

Hard blue crab landings were 217.9 million pounds valued at \$149.1 million--a decrease of 12.9 million pounds (6 percent) and \$9.0 million (6 percent) compared with 1997. North Carolina landed 29 percent of the total; Louisiana, 20 percent; Virginia, 15 percent; and Maryland landed 14 percent of the total U.S. landings. Hard blue crab landings in the Chesapeake region were 61.7 million pounds--a decrease of 26 percent; the South Atlantic, with 79.6 million pounds increased 6 percent; and the Gulf region with 65.6 million pounds increased 7 percent. The Middle Atlantic region with 11.0 million pounds valued at \$9.1 million had an increase of 392,000 pounds (4 percent) compared with 1997. The average exvessel price per pound of hard blue crabs was 68 cents in 1998, one cent less than in 1997.

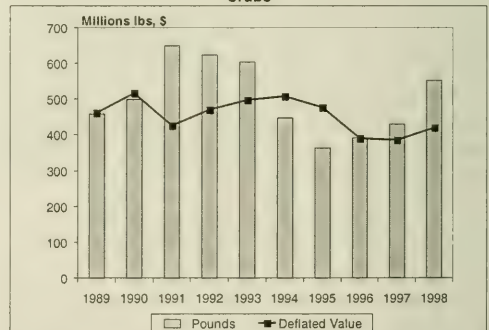
Dungeness crab landings were 34.2 million pounds valued at \$61.8 million--a decrease of 4.0 million pounds (10 percent) and \$13.8 million (18 percent) compared with 1997. Washington landings of 13.2 million pounds (down 16 percent) led all states with 39 percent of the total landings. California landings were 10.6 million pounds (up 7 percent) or 31 percent of the

total landings. Oregon landings were 7.4 million pounds (down 4 percent) and Alaska landings were 3.0 million pounds (down 39 percent) compared with 1997. The average exvessel price per pound was \$1.81 in 1998 compared with \$1.98 in 1997.

U.S. landings of king crab were 24.1 million pounds valued at \$57.4 million--an increase of 6.1 million pounds (34 percent) and \$6.8 million (13 percent) compared with 1997. The average exvessel price per pound in 1998 was \$2.38 compared with \$2.81 in 1997.

Snow (tanner) crab landings were 251.8 million pounds valued at \$145.0 million--an increase of 132.9 million pounds (112 percent) and \$49.3 million (51 percent) compared with 1997. The average exvessel price per pound was 58 cents in 1998, down from 80 cents in 1997.

Trend in Commercial Landings 1989-1998
Crabs



LOBSTER, AMERICAN. American lobster landings were 79.6 million pounds valued at \$253.6 million--a decrease of 4.3 million pounds (5 percent) and \$13.6 million (5 percent) compared with 1997. Maine led in landings for the seventeenth consecutive year with 46.9 million pounds valued at \$136.6 million--an increase of 95,000 pounds (less than 1 percent) compared with 1997. Massachusetts, the second leading producer, had landings of 13.3 million pounds valued at \$48.6 million--a decrease of 1.6 million pounds (11 percent) compared with 1997. Together, Maine and Massachu-

REVIEW

IMPORTANT SPECIES

setts produced 75 percent of the total national landings. The average exvessel price per pound was \$3.18 in 1998, the same price as in 1997.

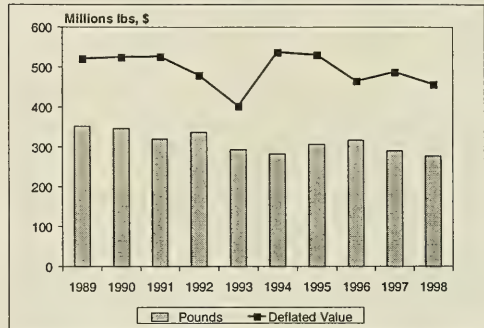
LOBSTERS, SPINY. U.S. landings of spiny lobster were 5.9 million pounds valued at \$24.4 million--a decrease of 1.3 million pounds (18 percent) and \$9.0 million (27 percent) compared with 1997. Florida, with landings of 5.2 million pounds valued at \$19.5 million, accounted for 87 percent of the total catch and 80 percent of the value. This was a decrease of 973,000 pounds (16 percent), and \$6.0 million (23 percent) compared with 1997. Overall the average exvessel price per pound was \$4.11 in 1998 compared with \$4.61 in 1997.

OYSTERS. U.S. oyster landings yielded 33.5 million pounds of meats valued at \$88.6 million -- a decrease of 3.6 million pounds (10 percent) and \$3.6 million (4 percent) compared with 1997. The Gulf region led in production with 19.9 million pounds of meats, 59 percent of the national total; followed by the Pacific (principally Washington, with 83 percent of the region's total volume) with 7.9 million pounds (24 percent); and the Chesapeake region with 2.7 million pounds (8 percent). The average exvessel price per pound of meats was \$2.64 in 1998 compared with \$2.46 in 1997.

SHRIMP. U.S. landings of shrimp were 277.8 million pounds valued at \$515.6 million--a decrease of 12.5 million pounds (4 percent) and \$28.4 million (5 percent) in value compared with 1997. Shrimp landings decreased in the South Atlantic (down 7 percent) and New England (down 42 percent), but increased 12 percent in the Gulf. The landings in the Pacific decreased 65 percent when compared with 1997. The average exvessel price per pound of shrimp decreased to \$1.86 in 1998 compared with \$1.87 in 1997. Gulf region landings were the nation's largest with 230.0 million pounds and 83 percent of the national total. Louisiana led all Gulf states with 96.2 million pounds (up 3 percent); followed by Texas, 72.4 million pounds (up 2 percent); Florida (West Coast), 25.2 million pounds (up 28 percent); Alabama, 20.1 million pounds (up 73 percent); and Mississippi, 16.1 million pounds (up 65

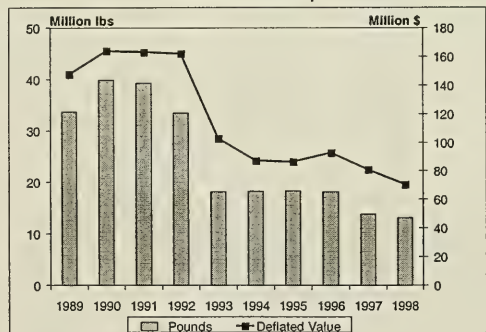
percent). In the Pacific region, Oregon had landings of 6.2 million pounds (down 68 percent); California had 3.2 million pounds (down 79 percent); and Washington had landings of 3.1 million pounds (down 50 percent) compared with 1997.

Trend in Commercial Landings, 1989-1998
Shrimp



SCALLOPS. U.S. landings of bay and sea scallops totaled 13.2 million pounds of meats valued at \$80.0 million -- a decrease of 695,000 pounds (5 percent) and \$10.6 million (12 percent) compared with 1997. The average exvessel price per pound of meats decreased from \$6.54 in 1997 to \$6.07 in 1998.

Trend in Commercial Landings, 1989-1998
Atlantic Sea Scallops



REVIEW

IMPORTANT SPECIES

Bay scallop landings were 105,000 pounds of meats valued at \$368,000--an increase of 33,000 pounds (46 percent) and \$58,000 (19 percent) compared with 1997. The average exvessel price per pound of meats was \$3.50 in 1998 compared with \$4.31 in 1997.

Commercial landings of calico scallops in Florida cannot be reported due to federal data confidentiality restrictions.

Sea scallop landings were 13.1 million pounds of meats valued at \$79.6 million--a decrease of 728,000 pounds (5 percent) and \$10.7 million (12 percent) compared with 1997. Massachusetts and Virginia were the leading states in landings of sea scallops with 5.8 and 3.5 million pounds of meats, respectively; representing 71 percent of the national total. The

average exvessel price per pound of meats in 1998 was \$6.09 compared with \$6.55 in 1997.

SQUID. U.S. commercial landings of squid were 99.5 million pounds valued at \$43.5 million--a decrease of 124.3 million pounds (56 percent) and \$12.0 million (22 percent) compared with 1997. New Jersey was the leading state with 40.6 million pounds (41 percent) of the national total and was followed by Rhode Island with 38.6 million pounds (39 percent) of the national total. The Middle Atlantic region landings were 48.9 million pounds (up 47 percent); followed by New England, 40.4 million (up 27 percent); Pacific, 7.4 pounds (down 95 percent); and the South Atlantic region with 927,000 pounds (up 10 percent) compared with 1997. The average exvessel price per pound for squid was 44 cents in 1998 compared with 25 cents in 1997.

U.S. DOMESTIC LANDINGS, BY SPECIES, 1997 AND 1998 (1)

Species	1997			1998			Average (1993-97)
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Fish							
Alewives	1,160	526	193	1,309	594	292	1,168
Anchovies	12,738	5,778	827	3,429	1,555	242	9,516
Atka mackerel	131,258	59,538	6,999	113,712	51,579	5,686	153,318
Bluefish	9,307	4,222	2,849	8,299	3,764	2,765	9,488
Blue runner	352	160	198	609	276	340	963
Bonito	993	450	405	2,596	1,178	917	1,496
Butterfish	7,544	3,422	5,112	5,684	2,578	2,848	8,869
Catfish and bullheads	15,150	6,872	9,615	11,590	5,257	5,251	11,893
Chubs	3,070	1,393	1,551	4,596	2,085	1,883	3,947
Cod:							
Atlantic	28,619	12,981	24,464	24,514	11,119	25,474	35,766
Pacific	661,314	299,970	142,429	555,993	252,197	87,717	560,223
Crevaille (jack)	593	269	378	875	397	487	243
Croaker:							
Atlantic	27,413	12,434	8,834	25,401	11,522	9,619	16,511
Pacific (white)	368	167	224	141	64	100	515
Cusk	977	443	563	780	354	512	1,849
Dolphinfish	1,970	894	2,640	922	418	1,375	1,775
Eels, American	1,069	485	6,592	1,015	460	3,971	1,084
Flounders:							
Arrowtooth	13,934	6,320	831	18,181	8,247	906	17,636
Winter (blackback)	12,710	5,765	16,167	11,244	5,100	15,110	10,721
Plaice, American	8,680	3,937	11,405	8,073	3,662	10,298	10,501
Summer (fluke)	8,784	3,984	16,331	11,211	5,085	20,384	16,070
Sole:							
Dover	27,210	12,342	7,255	22,029	9,992	6,576	--
Flathead	28,367	12,867	2,773	41,637	18,886	801	19,414
Witch (gray)	3,913	1,775	6,570	4,089	1,855	6,539	5,012
Petrale	4,270	1,937	3,852	3,228	1,464	3,044	--
Rock	72,205	32,752	10,354	33,508	15,199	710	78,098
Yellowfin	329,150	149,301	25,694	177,471	80,500	3,553	247,307
Yellowtail	6,313	2,864	9,477	8,060	3,656	10,940	6,106
Atlantic/Gulf, Other	4,969	2,254	9,196	5,864	2,660	9,532	15,035
Pacific, Other	45,848	20,797	10,864	46,583	21,130	8,409	74,563
Total, flounders	566,353	256,896	130,769	391,178	177,437	96,804	495,057
Goosefish (anglerfish)	60,640	27,506	34,591	58,105	26,356	33,553	50,597
Groupers	10,276	4,661	23,665	9,841	4,464	20,853	11,431
Haddock	3,316	1,504	3,595	6,252	2,836	7,880	1,622
Hake:							
Pacific (whiting)	499,598	226,616	27,344	501,554	227,503	19,931	437,564
Red	2,929	1,329	790	2,961	1,343	769	3,248
Silver (Atl.whiting)	34,248	15,535	15,024	32,990	14,964	13,369	34,910
White	4,897	2,221	3,229	5,256	2,384	3,788	9,737
Halibut	69,864	31,690	117,362	73,260	33,231	103,974	56,941
Herring:							
Sea:							
Atlantic	211,010	95,714	11,543	179,721	81,521	10,856	153,191
Pacific	136,861	62,080	29,341	92,296	41,865	10,722	118,837
Thread	16,641	7,548	1,007	5,678	2,576	658	11,062
Jack mackerel	2,557	1,160	281	3,445	1,563	308	4,360
Lingcod	4,164	1,889	2,021	1,454	660	927	4,547
Mackerel:							
Atlantic	33,940	15,395	9,527	27,588	12,514	4,704	23,521
Chub	40,558	18,397	2,762	45,025	20,423	2,547	25,545
King and cero	5,544	2,515	7,606	5,204	2,361	6,797	4,896
Spanish	3,738	1,696	1,933	3,216	1,459	1,807	4,644

See notes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY SPECIES, 1997 AND 1998 (1) - Continued

Species	1997			1998			Average (1993-97)
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
<u>Fish - Continued:</u>							
Menhaden:							
Atlantic	656,666	297,862	40,009	608,974	276,229	46,979	706,605
Gulf	1,371,136	621,943	72,041	1,096,703	497,461	56,857	1,280,812
Total, menhaden	2,027,802	919,805	112,050	1,705,677	773,690	103,836	1,987,418
Mullets	19,637	8,907	13,419	17,921	8,129	9,420	24,205
Ocean perch:							
Atlantic	553	251	346	706	320	419	993
Pacific	43,166	19,580	3,186	40,663	18,445	4,072	40,056
Pollock:							
Atlantic	9,372	4,251	5,349	12,307	5,582	8,101	8,758
Walleye (Alaska)	2,512,455	1,139,642	242,589	2,716,458	1,232,177	190,152	2,874,145
Rockfishes:							
Bocaccio	1,596	724	610	1,314	596	518	--
Canary	2,782	1,262	1,369	2,894	1,313	1,469	--
Chilipepper	4,079	1,850	1,626	2,807	1,273	1,187	--
Widow	17,088	7,751	5,235	10,796	4,897	3,850	--
Yellowtail	6,051	2,745	2,227	7,940	3,602	3,006	--
Other	85,392	38,734	36,832	44,307	20,098	23,011	--
Total, rockfishes	116,988	53,065	47,899	70,058	31,778	33,041	102,847
Sablefish	52,925	24,007	108,776	43,500	19,731	91,823	65,517
Salmon, Pacific:							
Chinook or king	21,772	9,876	27,680	16,229	7,361	18,998	20,908
Chum or keta	103,163	46,794	22,775	130,939	59,394	22,662	155,386
Pink	226,995	102,964	26,470	332,577	150,856	45,580	337,962
Red or sockeye	192,460	87,299	177,284	128,742	58,397	150,835	312,067
Silver or coho	23,268	10,554	16,161	35,947	16,305	19,381	47,946
Total, salmon	567,658	257,488	270,370	644,434	292,313	257,456	874,269
Sardines:							
Pacific	94,393	42,816	4,071	93,875	42,581	3,613	57,707
Spanish	1,128	512	279	1,079	489	251	1,446
Scup or porgy	5,718	2,594	7,449	4,913	2,229	6,882	8,086
Sea bass:							
Black (Atlantic)	3,506	1,590	4,927	3,377	1,532	5,342	3,715
White (Pacific)	62	28	127	157	71	295	82
Sea trout or weakfish:							
Gray	7,314	3,318	4,136	8,423	3,821	4,060	6,892
Spotted	943	428	1,091	585	265	841	1,710
Sand (white)	161	73	91	123	56	80	251
Shad:							
American	3,058	1,387	1,272	4,375	1,984	1,715	3,119
Hickory	165	75	43	104	47	14	119
Sharks:							
Dogfish	46,345	21,022	7,307	49,111	22,277	8,139	52,335
Other	14,934	6,774	8,536	15,453	7,009	6,644	15,273
Sheepshead (Atlantic)	3,843	1,743	1,336	3,010	1,365	1,080	4,139
Skates	27,845	12,630	4,209	33,669	15,272	4,578	22,983
Smelts	3,076	1,395	1,075	1,817	824	643	3,017
Snapper:							
Red	5,161	2,341	10,365	4,257	1,931	9,899	4,104
Vermilion	1,630	739	3,245	1,059	480	2,280	1,630
Unclassified	3,840	1,742	7,884	3,614	1,639	7,021	6,247

See notes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

3

U.S. DOMESTIC LANDINGS, BY SPECIES, 1997 AND 1998 (1) - Continued

Species	1997			1998			Average (1993-97)
Fish - Continued:	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Spearfish	220	100	130	296	134	174	226
Spot	6,775	3,073	2,738	7,404	3,358	2,934	7,272
Striped bass	6,176	2,801	8,970	6,715	3,046	9,699	3,569
Swordfish	13,586	6,163	33,786	15,093	6,846	28,888	15,344
Tenpounder (ladyfish)	1,602	727	505	2,151	976	1,178	--
Tilefish	4,230	1,919	5,829	3,801	1,724	6,011	3,893
Trout, rainbow	303	137	242	789	358	497	401
Tuna:							
Albacore	28,824	13,074	24,684	33,429	15,163	22,224	24,069
Bigeye	6,985	3,168	21,231	8,779	3,982	24,816	6,540
Bluefin	7,265	3,295	20,207	6,660	3,021	15,448	6,151
Little (tunny)	994	451	359	661	300	161	532
Skipjack	15,874	7,200	8,688	13,918	6,313	6,616	13,194
Yellowfin	22,524	10,217	34,224	20,832	9,449	24,791	20,764
Unclassified	389	176	401	720	327	406	618
Total, tuna	82,855	37,583	109,794	84,999	38,555	94,462	71,869
Whitefish, lake	12,880	5,842	9,702	12,519	5,679	9,418	11,771
Wolffish, Atlantic	682	309	265	652	296	321	935
Yellow perch	1,371	622	2,851	1,227	557	2,637	2,371
Other marine finfishes	66,854	30,325	34,768	52,313	23,729	35,388	101,750
Other freshwater finfishes	15,045	6,824	4,875	12,847	5,827	3,914	16,409
Total, fish	8,397,286	3,808,984	1,722,145	7,888,020	3,577,982	1,446,942	--
Shellfish							
Abalone	45	20	1,056	-	-	-	75
Clams:							
Quahog (hard)	7,708	3,496	41,865	7,194	3,263	41,775	12,800
Geoduck (Pacific)	1,081	490	14,161	1,445	655	16,025	--
Manila	201	91	1,248	1,174	533	8,650	--
Ocean quahog	43,940	19,931	19,929	39,898	18,098	18,358	47,512
Softshell	2,299	1,043	9,929	2,815	1,277	12,235	2,834
Surf (Atlantic)	57,977	26,298	35,185	54,032	24,509	29,202	65,184
Other	978	444	7,369	1,401	635	8,992	1,577
Total, clams	114,184	51,794	129,686	107,959	48,970	135,237	131,965
Conch (snails)	2,258	1,024	2,854	1,872	849	2,448	4,393
Crabs:							
Blue: Hard	230,830	104,704	158,188	217,916	98,846	149,141	221,930
Soft and peeler	4,021	1,824	12,534	6,693	3,036	34,316	3,086
Dungeness	38,202	17,328	75,682	34,213	15,519	61,894	50,496
Jonah	1,643	745	806	2,768	1,256	1,359	1,601
King	18,028	8,177	50,576	24,122	10,942	57,366	18,079
Snow (tanner):							
Opilio	117,090	53,112	92,380	249,146	113,012	139,771	126,538
Bairdi	1,808	820	3,317	2,685	1,218	5,207	10,010
Other	18,341	8,319	36,064	15,173	6,882	24,324	15,587
Total, crabs	429,963	195,030	429,547	552,716	250,710	473,378	447,356

See notes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY SPECIES, 1997 AND 1998 (1) - Continued

Species	1997			1998			Average (1993-97)
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
<u>Shellfish - Continued</u>							
Crawfish (freshwater)	23,140	10,496	12,997	22,226	10,082	14,637	24,909
Horseshoe crab	5,748	2,607	1,197	7,170	3,252	2,159	2,899
Lobsters:							
American	83,921	38,066	267,216	79,642	36,125	253,636	68,979
Spiny	7,240	3,284	33,381	5,935	2,692	24,380	7,370
Mussels, blue (sea)	4,532	2,056	2,288	2,913	1,321	1,604	5,995
Oysters	37,115	16,835	92,243	33,538	15,213	88,627	37,940
Scallops:							
Bay	72	33	310	105	48	368	192
Calico, Atlantic	1,613	732	3,601	(3)	(3)	(3)	3,881
Sea	13,789	6,255	90,291	13,061	5,924	79,606	17,322
Shrimp:							
New England	14,010	6,355	11,477	8,132	3,689	7,697	12,502
South Atlantic	25,638	11,629	68,655	23,972	10,874	61,341	32,071
Gulf	205,517	93,222	436,929	229,962	104,310	429,169	211,304
Pacific	45,054	20,436	26,817	15,545	7,051	16,773	41,906
Other	36	16	178	146	66	636	45
Total, shrimp	290,255	131,659	544,056	277,757	125,990	515,616	297,828
Squid:							
Atlantic:							
Illex	30,054	13,632	6,440	50,082	22,717	9,463	36,023
Loligo	35,630	16,162	26,476	41,620	18,879	32,141	40,688
Unclassified	493	224	427	1,543	700	277	106,315
Pacific:							
Loligo	156,348	70,919	22,056	5,973	2,709	1,520	--
Unclassified	1,258	571	82	235	107	71	--
Total, Squid	223,783	101,507	55,481	99,453	45,112	43,472	184,297
Other shellfish	7,312	3,317	11,378	14,268	6,472	13,686	--
Total, Shellfish	1,244,970	564,715	1,677,582	1,218,615	552,760	1,648,854	--
<u>Other</u>							
Sea urchins	44,568	20,216	39,330	30,042	13,627	27,319	56,727
Seaweed, unclassified	155,274	70,432	2,443	56,318	25,546	982	--
Kelp (w/herring eggs)	657	298	3,596	315	143	1,017	555
Worms	492	223	2,507	660	299	3,355	--
Total, other	200,991	91,169	47,876	87,335	39,615	32,673	--
Grand Total, U.S.	9,843,247	4,464,868	3,447,603	9,193,970	4,170,357	3,128,469	---

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River drainage are not available.
 (3) Data are confidential and included with unclassified shellfish.

Note:--Metric tons are arrived at by dividing the landings of individual species and group totals by 2.2046. Totals may not add due to rounding. Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels unloaded onto foreign vessels within the EEZ (joint ventures). Data do not include aquaculture products except oysters and clams.

U.S. COMMERCIAL LANDINGS

5

DISPOSITION OF U.S. DOMESTIC LANDINGS, 1997 AND 1998

End Use	1997		1998	
	<u>Million</u> <u>pounds</u>	<u>Percent</u>	<u>Million</u> <u>pounds</u>	<u>Percent</u>
Fresh and frozen:				
For human food	6,554	66.6	6,574	71.5
For bait and animal food	319	3.2	296	3.2
Total	6,873	69.8	6,870	74.7
Canned:				
For human food	582	5.9	470	5.1
For bait and animal food	66	0.7	46	0.5
Total	648	6.6	516	5.6
Cured for human food	108	1.1	129	1.4
Reduction to meal, oil, other	2,213	22.5	1,679	18.3
Grand total	9,842	100.0	9,194	100.0

NOTE:--Data are preliminary. Table may not add due to rounding.

DISPOSITION OF U.S. DOMESTIC LANDINGS, BY MONTH, 1998

Month	Landings for human food		Landings for industrial purposes (1)		Total	
	<u>Million</u> <u>pounds</u>	<u>Percent</u>	<u>Million</u> <u>pounds</u>	<u>Percent</u>	<u>Million</u> <u>pounds</u>	<u>Percent</u>
January	525	7.3	24	1.2	549	6.0
February	1,251	17.4	17	0.8	1,268	13.8
March	533	7.4	21	1.0	554	6.0
April	266	3.7	86	4.3	352	3.8
May	455	6.3	280	13.9	735	8.0
June	492	6.9	260	12.9	752	8.2
July	623	8.7	365	18.1	988	10.7
August	701	9.8	325	16.1	1,026	11.2
September	951	13.3	223	11.0	1,174	12.8
October	975	13.6	239	11.8	1,214	13.2
November	238	3.3	106	5.2	344	3.7
December	163	2.3	75	3.7	238	2.6
Total	7,173	100.0	2,021	100.0	9,194	100.0

(1) Processed into meal, oil, solubles, and shell products, or used as bait and animal food.

U.S. COMMERCIAL LANDINGS OF FISH AND SHELLFISH, 1989-1998 (1)

Year	Landings for human food		Landings for industrial purposes (2)		Total	
	<u>Million</u> <u>pounds</u>	<u>Million</u> <u>dollars</u>	<u>Millions</u> <u>pounds</u>	<u>Million</u> <u>dollars</u>	<u>Millions</u> <u>pounds</u>	<u>Million</u> <u>dollars</u>
1989	6,204	3,111	2,259	127	8,463	3,238
1990	7,041	3,366	2,363	156	9,404	3,522
1991	7,031	3,169	2,453	139	9,484	3,308
1992	7,618	3,531	2,019	147	9,637	3,678
1993	*8,214	3,317	2,253	154	10,467	3,471
1994	7,936	3,714	2,525	95	10,461	3,809
1995	7,667	3,625	2,121	145	9,788	3,770
1996	7,474	3,355	2,091	132	9,565	3,487
1997	7,244	3,285	2,598	163	9,842	3,448
1998	7,173	3,009	2,021	119	9,194	3,128

(1) Statistics on landings are shown in round weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are shown in weight of meats (excluding the shell). All data are preliminary.

(2) Processed into meal, oil, solubles, and shell products, or used as bait or animal food.

* Record. Record--For industrial purposes 1983, 3,201 million lb.

NOTE:--Data do not include landings outside the 50 States or products of aquaculture, except oysters and clams.

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY REGION AND BY STATE, 1997 AND 1998 (1)

Regions and States	1997		1998		Record Landings	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Year	Thousand pounds
New England:	640,621	555,913	595,611	537,442	-	-
Maine	244,059	223,244	183,905	216,431	1950	356,266
New Hampshire	10,919	12,577	10,143	11,178	-	(2)
Massachusetts	229,991	214,706	252,518	204,408	1948	649,696
Rhode Island	138,693	74,813	131,420	71,066	1957	142,080
Connecticut	16,959	30,573	17,625	34,359	1930	88,012
Middle Atlantic:	236,881	199,912	261,686	181,177	-	-
New York	59,943	96,689	57,532	84,323	1880	335,000
New Jersey	168,289	97,898	195,918	90,919	1956	540,060
Delaware	8,649	5,325	7,898	5,882	1953	367,500
Pennsylvania	NA	NA	338	53	-	-
Chesapeake:	688,142	169,319	653,365	179,869	-	-
Maryland	76,627	64,321	61,468	67,190	1890	141,607
Virginia	611,515	104,998	591,897	112,679	1990	786,794
South Atlantic:	298,685	213,366	239,912	197,010	-	-
North Carolina	229,729	101,729	182,161	104,777	1981	432,006
South Carolina	17,023	31,456	17,304	28,292	1965	26,611
Georgia	14,511	27,400	13,017	23,737	1927	47,607
Florida, East Coast	37,422	52,801	27,430	40,204	-	(2)
Gulf:	1,790,310	758,681	1,536,583	718,925	-	-
Florida, West Coast	77,307	156,439	87,010	148,356	-	(2)
Alabama	23,076	38,311	30,081	46,985	1973	36,744
Mississippi	177,782	41,972	210,775	48,434	1985	439,518
Louisiana	1,426,495	318,822	1,119,500	291,893	1984	1,931,027
Texas	85,650	203,137	89,217	183,257	1960	237,684
Pacific Coast:	6,125,787	1,464,962	5,843,268	1,235,709	-	-
Alaska	4,765,002	1,066,555	4,858,052	951,479	1993	5,905,638
Washington	438,567	139,648	418,985	123,223	1994	527,804
Oregon	273,503	80,423	230,125	50,341	1992	256,912
California	648,715	178,336	336,106	110,666	1936	1,760,193
Great Lakes:	26,256	16,797	27,116	16,274	-	-
Illinois	154	241	98	98	-	(2)
Indiana	158	327	-	-	-	(2)
Michigan	15,874	9,623	14,831	8,862	1930	35,580
Minnesota	472	236	427	224	-	(2)
New York	70	74	1	2	-	-
Ohio	3,970	2,199	4,733	2,618	1936	31,083
Pennsylvania	13	11	35	52	-	(2)
Wisconsin	5,545	4,086	6,991	4,418	-	(2)
Hawaii	36,568	68,693	36,426	62,065	1993	34,582
Total, United States	9,843,250	3,447,663	9,193,967	3,128,471	-	---

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River drainage area States are not available.

(2) Data not available.

NA:--Not applicable.

NOTE:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States and catches by U.S.-flag vessels by U.S.-flag vessels unloaded onto foreign vessels within the EEZ (joint ventures). Therefore, they will not agree with "U.S. Commercial Landings" beginning on page 1. There may also be differences in totals due to rounding. Data do not include aquaculture products, except oysters or clams.

COMMERCIAL FISHERY LANDINGS AND VALUE AT MAJOR U.S. PORTS, 1997-1998

Port	Quantity		Port	Value	
	1997	1998		1997	1998
	Million pounds			Million dollars	
Dutch Harbor, AK	587.8	597.1	Dutch Harbor, AK	122.6	110.0
Reedville, VA	491.9	509.0	New Bedford, MA	103.2	93.5
Kodiak, AK	277.5	357.6	Kodiak, AK	88.6	78.7
Empire-Venice, LA	395.9	328.0	Brownsville-Port Isabel, TX	46.1	64.2
Seattle, WA	336.1	312.8	Honolulu, HI	54.0	49.0
Cameron, LA	379.6	257.4	Key West, FL	54.9	44.8
Intercoastal City, LA	270.8	206.7	Reedville, VA	29.5	42.6
Pascagoula-Moss Point, MS	164.7	193.2	Point Judith, RI	47.6	41.8
Morgan City-Berwick, LA	222.9	158.6	Dulac-Chauvin, LA	42.1	38.7
Los Angeles, CA	168.2	145.3	Empire-Venice, LA	57.8	38.3
Newport, OR	107.7	117.6	Bayou La Batre, AL	25.8	36.4
Gloucester, MA	81.5	107.1	Portland, ME	43.2	35.2
Ketchikan, AK	65.2	99.9	Palacios, TX	30.4	32.6
Cape May-Wildwood, NJ	71.1	94.0	Port Arthur, TX	23.9	32.6
Astoria, OR	114.8	87.7	Gulfport-Biloxi, MS	23.1	30.1
New Bedford, MA	83.3	87.4	Cameron, LA	35.1	29.8
Beaufort-Morehead City, NC	128.6	80.4	Naknek-King Salmon, AK	27.6	29.5
Point Judith, RI	74.9	75.1	Cape May-Wildwood, NJ	29.7	29.2
Petersburg, AK	70.1	73.0	Tampa Bay-St. Petersburg, FL	17.6	28.7
Portland, ME	74.8	46.5	Gloucester, MA	23.5	28.4
Cordova, AK	59.4	45.4	Hampton Roads Area, VA	27.9	28.0
Seward, AK	32.8	45.0	Galveston, TX	24.2	27.9
Rockland, ME	68.3	39.0	Golden Meadow-Leeville, LA	24.8	27.1
Atlantic City, NJ	39.0	37.3	Seward, AK	27.8	26.3
Wanchese-Stumpy Point, NC	38.1	36.7	Petersburg, AK	29.3	26.1
Westport, WA	31.3	34.5	Los Angeles, CA	31.4	25.7
Naknek-King Salmon, AK	41.5	34.1	Wanchese-Stumpy Point, NC	24.0	24.7
Point Pleasant, NJ	32.4	32.9	Sitka, AK	28.2	24.3
Dulac-Chauvin, LA	32.5	30.5	Ketchikan, AK	19.6	22.8
Honolulu, HI	28.3	28.3	Delcambre, LA	21.6	22.5
Moss Landings, CA	44.6	27.3	Seattle, WA	22.1	22.3
Brownsville-Port Isabel, TX	13.8	24.7	Beaufort-Morehead City, NC	23.7	20.8
Bellingham, WA	24.8	24.0	Cordova, AK	26.4	20.7
Bayou La Batre, AL	12.1	23.6	Fort Myers, FL	16.0	20.5
Crescent City, CA	32.7	22.9	Homer, AK	19.9	18.9
Hampton Roads Area, VA	23.6	21.9	Astoria, OR	22.4	18.0
Sitka, AK	21.3	19.3	Atlantic City, NJ	20.8	17.8
Homer, AK	24.6	19.0	Morgan City-Berwick, LA	19.1	17.8
Key West, FL	18.8	18.9	Grand Isle, LA	15.8	17.1
Kenai, AK	36.5	18.7	Bellingham, WA	17.2	16.7
Ilwaco-Chinook, WA	13.1	18.1	Point Pleasant, NJ	16.8	16.7
Wrangell, AK	13.4	17.9	Freeport, TX	15.2	16.1
Provincetown-Chatham, MA	16.8	17.8	Delacroix-Yscloskey, LA	15.8	15.6
Englehard-Swanquarter, NC	14.7	17.7	Aransas Pass-Rockport, TX	17.4	15.5
Golden Meadow-Leeville, LA	15.1	17.6	Newport, OR	20.9	14.1
Galveston, TX	12.5	16.3	Pascagoula-Moss Point, MS	13.4	13.8
Port Hueneme-Oxnard-Ventura, CA	111.9	16.0	Charleston-Mt. Pleasant, SC	14.6	13.0
Hampton Bay-Shinnecock, NY	12.9	14.7	Westport, WA	19.6	12.8
Coos Bay-Charleston, OR	21.5	14.6	Intercoastal City, LA	15.5	12.7
Palacios, TX	11.5	14.6	Englehard-Swanquarter, NC	10.7	12.5
Port Arthur, TX	9.5	14.6	Montauk, NY	13.5	12.2

Notes:--To avoid disclosure of private enterprise certain leading ports have not been included. Seattle landings include fish caught by at-sea processing vessels. The record landings for quantity was 848.2 million pounds in Los Angeles, CA in 1960 and for value was \$224.1 million in Dutch Harbor-Unalaska, AK in 1994.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores		High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles	3 - 200 miles				
Fish	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Alewives	1,301	292	8	1	1,309	293
Anchovies	2,853	210	576	32	3,429	242
Atka mackerel	(3)	(3)	113,712	5,686	113,712	5,686
Bluefish	5,248	1,772	3,052	993	8,300	2,765
Blue runner	303	200	306	140	609	340
Bonito	661	251	1,935	667	2,596	918
Butterfish	897	525	4,788	2,322	5,685	2,847
Catfish & bullheads	11,590	5,251	(3)	(3)	11,590	5,251
Chubs	4,596	1,883	-	-	4,596	1,883
Cod:						
Atlantic	1,100	1,149	23,414	24,325	24,514	25,474
Pacific	44,055	7,903	511,937	79,814	555,992	87,717
Crevalle	314	198	561	289	875	487
Croaker:						
Atlantic	18,133	7,136	7,268	2,483	25,401	9,619
Pacific (white)	33	23	109	77	142	100
Cusk	96	61	684	451	780	512
Dolphinfish	3	4	915	1,366	922	1,375
Eel, American	1,015	3,971	(3)	(3)	1,015	3,971
Flounders:						
Arrowtooth	871	61	17,309	844	18,180	905
Winter (blackback)	2,428	3,179	8,816	11,931	11,244	15,110
Plaice, American	1,055	1,270	7,017	9,029	8,072	10,299
Summer (fluke)	2,696	5,572	8,514	14,813	11,210	20,385
Sole:						
Dover	3,595	1,229	18,434	5,347	22,029	6,576
Flathead	314	40	41,323	761	41,637	801
Witch (gray)	3,645	659	3,645	5,881	4,089	6,540
Peirale	786	738	2,442	2,306	3,228	3,044
Rock	616	22	32,893	688	33,509	710
Yellowfin	42	3	177,429	3,551	177,471	3,554

(Continued)

See footnotes at end of table

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT

OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

U.S. COMMERCIAL LANDINGS

9

Species	Distance from U.S. shores			High Seas or off Foreign Shores			Grand Total	
	0 to 3 miles		3 - 200 miles	Thousand Pounds		Thousand Dollars	Thousand Pounds	Thousand Dollars
Fish - Continued	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Flounders - Continued:								
Yellowtail	424	538	7,636	10,402	-	-	8,060	10,940
Atlantic/Gulf, other	4,830	9,109	1,034	423	-	-	5,864	9,532
Pacific, other	3,276	2,258	43,307	6,151	-	-	46,583	8,409
Total flounders	21,377	24,678	369,799	72,127	-	-	391,176	96,805
Gooselish (anglerfish)	6,180	3,637	51,925	29,916	-	-	58,105	33,553
Groupers	434	904	9,407	19,948	-	-	9,841	20,852
Haddock	327	408	5,925	7,471	-	-	6,252	7,879
Hakes:								
Pacific (whiting)			501,554	19,931	-	-	501,554	19,931
Red	81	19	2,881	750	-	-	2,962	769
Silver (Atl. Whiting)	351	126	32,639	13,243	-	-	32,990	13,369
White	529	356	4,726	3,432	-	-	5,255	3,788
Halibut	3,597	5,248	71,141	100,536	8	10	74,746	105,794
Herring:								
Sea:								
Atlantic	26,241	1,795	153,481	9,062	-	-	179,722	10,857
Pacific	92,289	10,722	7	(3)	-	-	92,296	10,722
Thread	5,674	658	4	(3)	-	-	5,678	658
Jack mackerel	1,259	168	2,186	141	-	-	3,445	309
Lingcod	488	298	966	628	-	-	1,454	926
Mackerels:								
Atlantic	945	251	26,642	4,454	-	-	27,587	4,705
Chub	30,113	1,679	14,912	868	-	-	45,025	2,547
King and cero	454	500	4,750	6,297	-	-	5,204	6,797
Spanish	785	546	2,432	1,261	-	-	3,217	1,807
Menhaden:								
Atlantic	607,220	46,825	1,756	154	-	-	608,976	46,979
Gulf	866,626	44,881	230,076	11,976	-	-	1,096,702	56,857
Total menhaden	1,473,846	91,706	231,832	12,130	-	-	1,705,678	103,836
Mullets	17,845	9,386	76	34	-	-	17,921	9,420
Ocean perch:								
Atlantic	31	18	675	401	-	-	706	419
Pacific	90	7	40,573	4,065	-	-	40,663	4,072

(Continued)

See footnotes at end of table

U.S. COMMERCIAL LANDINGS

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores		High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles	3 - 200 miles	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Fish - Continued	Thousand Pounds	Thousand Pounds	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Pollock:						
Atlantic	726	461	11,581	7,640	12,307	8,101
Walleye (Alaska)	125,658	8,796	2,590,800	181,356	2,716,458	190,152
Rockfishes:						
Bocaccio	48	25	1,266	493	1,314	518
Canary	86	50	2,808	1,419	2,894	1,469
Chilepepper	696	295	2,110	892	2,806	1,187
Widow	41	17	10,755	3,833	10,796	3,850
Yellowtail	378	191	7,562	2,815	7,940	3,006
Other	3,125	1,470	41,182	21,541	44,307	23,011
Total rockfishes	4,374	2,048	65,683	30,993	70,057	33,041
Sablefish	6759	14968	36740	76855	43,499	91,823
Salmon:						
Chinook or king	13,382	15,119	2,847	3,879	16,229	18,998
Chum or keta	130,931	22,661	8	1	130,939	22,662
Pink	332,558	45,577	19	3	332,577	45,580
Red or sockeye	128,740	150,833	1	1	128,741	150,834
Silver or coho	34,395	18,224	1,552	1,157	35,947	19,381
Total salmon	640,006	252,414	4,427	5,041	644,433	257,455
Sardines:						
Pacific	66,665	2,566	27,210	1,047	93,875	3,613
Spanish	1,079	251	-	-	1,079	251
Scup or porgy	1,558	2,673	3,356	4,208	4,914	6,881
Sea bass:						
Black (Atlantic)	548	1,091	2,829	4,251	3,377	5,342
White (Pacific)	52	97	105	198	157	295
Sea trout or weakfish:						
Gray	6,058	2,915	2,366	1,145	8,424	4,060
Spotted	583	840	1	1	584	841
Sand (white)	109	73	14	7	123	80
Shad:						
American	4,276	1,681	99	34	4,375	1,715
Hickory	95	13	10	1	105	14

(Continued)

See footnotes at end of table

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT

OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

U.S. COMMERCIAL LANDINGS

11

Species	Distance from U.S. shores			High Seas or off Foreign Shores			Grand Total	
	0 to 3 miles	3 - 200 miles		Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Pounds	Thousand Dollars
Fish - Continued	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Sharks:								
Dogfish	9,195	1,445	39,916	6,694	-	-	49,111	8,139
Other	1,363	568	11,587	5,452	2,503	624	15,453	6,644
Sheepshead (Atlantic)	2,986	1,071	24	9	-	-	3,010	1,080
Skates	9,568	1,320	24,101	3,257	-	-	33,669	4,577
Smelts	1,599	622	218	22	-	-	1,817	644
Snappers:								
Red	173	765	4,084	9,134	-	-	4,257	9,899
Vermilion	28	50	1,031	2,230	-	-	1,059	2,280
Unclassified	242	521	3,372	6,501	-	-	3,614	7,022
Speartfish	15	9	192	113	89	52	296	174
Spot	7,288	2,893	116	41	-	-	7,404	2,934
Striped bass	6,609	9,546	106	153	-	-	6,715	9,699
Swordfish	55	104	11,261	22,236	3,777	6,548	15,093	28,888
Tenpounder (ladyfish)	2,134	1,173	17	5	-	-	2,151	1,178
Tilefish	13	16	3,787	5,995	-	-	3,800	6,011
Trout, Rainbow	789	497	-	-	-	-	789	497
Tuna:								
Albacore	2	2	27,512	17,965	17,180	12,708	44,694	30,675
Bigeye	11	24	6,429	18,087	11,146	10,758	17,586	28,869
Bluefin	6	15	4,488	13,812	2,166	1,820	6,660	15,447
Little tunny	167	30	494	131	-	-	661	161
Skipjack	122	146	1,088	1,267	271,426	102,223	272,636	103,636
Yellowfin	175	373	7,172	15,311	129,144	62,308	136,491	77,992
Unclassified	4	8	185	194	531	203	720	405
Total tuna	487	598	47,368	66,767	431,593	189,820	479,448	257,185
Whitefish, common	12,519	9,418	-	-	-	-	12,519	9,418
Wolffish, Atlantic	26	14	627	307	-	-	653	321
Yellow perch	1,227	2,637	(3)	(3)	-	-	1,227	2,637
Other marine finfishes	25,451	19,521	31,052	16,187	692	1,025	57,195	36,733
Other freshwater finfishes	12,847	3,914	(3)	(3)	-	-	12,847	3,914
Total finfish	2,728,294	531,528	5,121,878	883,221	438,666	198,084	8,286,838	1,612,833

(Continued)

See footnotes at end of table

U.S. COMMERCIAL LANDINGS

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles		3 - 200 miles					
Shellfish	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Clams:								
Quahog (hard)	7,193	41,775	1	(3)	-	-	7,194	41,775
Geoduck (Pacific)	1,445	16,025	(3)	(3)	-	-	1,445	16,025
Manila (Pacific)	1,174	8,650	-	-	-	-	1,174	8,650
Ocean quahog	10,110	5,695	29,788	12,663	-	-	39,898	18,358
Softshell	2,815	12,235	-	-	-	-	2,815	12,235
Surf (Atlantic)	26,504	16,496	27,528	12,706	-	-	54,032	29,202
Other	1,401	8,992	(3)	(3)	-	-	1,401	8,992
Total clams	50,642	109,868	57,317	25,369	-	-	107,959	135,237
Conch (snails)	1425	1808	447	640	-	-	1,872	2,448
Crabs:								
Blue: Hard	217,916	149,141	(3)	(3)	-	-	217,916	149,141
Soft or peeler	6,693	34,316	(3)	(3)	-	-	6,693	34,316
Dungeness	30,359	54,874	3,854	7,020	-	-	34,213	61,894
Jonah	1,411	705	1,357	654	-	-	2,768	1,359
King	1,068	2,511	23,054	54,854	-	-	24,122	57,365
Snow (tanner):								
Opilio	437	245	248,709	139,526	-	-	249,146	139,771
Bairdi	2,685	5,207	(3)	(3)	-	-	2,685	5,207
Other	6,997	6,409	8,176	17,916	-	-	15,173	24,325
Total crabs	267,566	253,408	285,150	219,970	-	-	552,716	473,378
Crawfish, freshwater	22,226	14,637	-	-	-	-	22,226	14,637
Horseshoe crab	4,019	763	3,151	1,396	-	-	7,170	2,159
Lobsters:								
American	69,378	216,011	10,264	37,624	-	-	79,642	253,635
Spiny	2,271	10,234	3,664	14,146	-	-	5,935	24,380
Mussels, blue (sea)	2,913	1,604	-	-	-	-	2,913	1,604
Oysters	33,538	88,627	(3)	(3)	-	-	33,538	88,627

(Continued)

See footnotes at end of table

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)**

U.S. COMMERCIAL LANDINGS

13

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles		3 - 200 miles					
Shellfish - Continued	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Scallops:								
Bay	105	368	(3)	(3)	-	-	105	368
Calico, Atlantic	(4)	(4)	(4)	(4)	-	-	(4)	(4)
Sea	1,102	7,132	11,959	72,474	-	-	13,061	79,606
Shrimp:								
New England	2,584	2,480	5,548	5,217	-	-	8,132	7,697
South Atlantic	20,007	52,832	3,964	8,509	-	-	23,971	61,341
Gulf	119,090	190,582	110,871	238,587	-	-	229,961	429,169
Pacific	6,839	9,560	8,706	7,213	-	-	15,545	16,773
Other	44	191	88	382	15	64	147	637
Total shrimp	148,564	255,645	129,177	259,908	15	64	277,756	515,617
Squid:								
Atlantic:								
Illex	5,033	1,355	45,049	8,108	-	-	50,082	9,463
Loligo	5,402	4,302	36,218	27,840	-	-	41,620	32,142
Unclassified	209	70	1,334	207	-	-	1,543	277
Pacific:								
Loligo	5,555	1,414	418	106	-	-	5,973	1,520
Unclassified	235	71	-	-	-	-	235	71
Total, squid	16,434	7,212	83,019	36,261	-	-	99,453	43,473
Other shellfish	12,635	11,327	1,633	2,359	-	-	14,268	13,686
Total shellfish	632,818	978,644	585,781	670,147	15	64	1,218,614	1,648,855
Other								
Sea urchin	30,042	27,319	(3)	(3)	-	-	30,042	27,319
Seaweed, unclassified	56,318	982	-	-	-	-	56,318	982
Kelp (with herring eggs)	-	1,017	(3)	(3)	-	-	315	1,017
Worms	660	3,355	-	-	-	-	660	3,355
Total other	87,335	32,673	-	-	-	-	87,335	32,673
Grand total, 1998	3,448,447	1,542,845	5,707,659	1,553,368	438,681	198,148	9,594,787	3,294,361
Grand total, 1997	3,984,359	1,654,195	5,819,081	1,754,494	418,437	224,485	10,221,877	3,633,174

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance-from-shore landings for data collected by the Service and States. (2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States. (3) Less than 500 LB or \$500. (4) Data are confidential and included with other shellfish.

NOTE:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States and catches by U.S.-flag vessels unloaded onto foreign vessels within the EEZ (joint ventures). Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. There may also be differences in totals due to rounding. Data do not include aquaculture products, except oysters or clams

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores			High Seas or off Foreign Shores			Total	
	0 to 3 miles		3 to 200 miles	Metric Tons		Thousand Dollars	Metric Tons	Thousand Dollars
Fish	Metric Tons	Thousand Dollars		Metric Tons	Thousand Dollars		Metric Tons	Thousand Dollars
Alwives	590	292	4	1			594	293
Anchovies	1,294	210	261	32			1,555	242
Atka mackerel	(3)	(3)	51,579	5,686			51,579	5,686
Bluefish	2,380	1,772	1,384	993			3,765	2,765
Blue runner	137	200	139	140			276	340
Bonito	300	251	878	667			1,178	918
Butterfish	407	525	2,172	2,322			2,579	2,847
Catfish & bullheads	5,257	5,251	-	-			5,257	5,251
Chubs	2,085	1,883	-	-			2,085	1,883
Cod:								
Atlantic	499	1,149	10,621	24,325			11,119	25,474
Pacific	19,983	7,903	232,213	79,814			252,196	87,717
Crevalle	142	198	254	289			397	487
Croaker:								
Atlantic	8,225	7,136	3,297	2,483			11,522	9,619
Pacific (white)	15	23	49	77			64	100
Cusk	44	61	310	451			354	512
Dolphinfish	1	4	415	1,366		5	418	1,375
Eel, American	460	3,971	(3)	(3)			460	3,971
Flounders:								
Arrowtooth	395	61	7,851	844			8,246	905
Winter (blackback)	1,101	3,179	3,999	11,931			5,100	15,110
Plaice, American	479	1,270	3,183	9,029			3,661	10,299
Summer (fluke)	1,223	5,572	3,862	14,813			5,085	20,385
Sole:								
Dover	1,631	1,229	8,362	5,347			9,992	6,576
Flathead	142	40	18,744	761			18,886	801
Witch (gray)	201	659	1,653	5,881			1,855	6,540
Petrale	357	738	1,108	2,306			1,464	3,044
Rock	279	22	14,920	688			15,200	710
Yellowfin	19	3	80,481	3,551			80,500	3,554

(Continued)

See footnotes at end of table

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

U.S. COMMERCIAL LANDINGS

15

Species	Distance from U.S. shores			High Seas or off Foreign Shores			Total	
	0 to 3 miles	3 to 200 miles		Shores		Metric Tons	Thousand Dollars	Thousand Dollars
	Metric Tons	Thousand Dollars	Metric Tons	Metric Tons	Thousand Dollars			
Fish - Continued								
Flounders - Continued:								
Yellowtail	192	538	3,464	-	-	3,656	10,940	
Atlantic/Gulf, other	2,191	9,109	469	-	-	2,660	9,532	
Pacific, other	1,486	2,258	19,644	-	-	21,130	8,409	
Total Flounders	9,697	24,678	369,799	-	-	177,436	96,805	
Goosefish (anglerfish)	2,803	3,637	23,553	-	-	26,356	33,553	
Groupers	197	904	4,267	-	-	4,464	20,852	
Haddock	148	408	2,688	-	-	2,836	7,879	
Hakes:								
Pacific (whiting)	-	-	227,503	-	-	227,503	19,931	
Red	37	19	1,307	-	-	1,344	769	
Silver (Atl. Whiting)	159	126	14,805	-	-	14,964	13,369	
White	240	356	2,144	-	-	2,384	3,788	
Halibut	1,632	5,248	32,269	4	10	33,905	105,794	
Herring:								
Sea:								
Atlantic	11,903	1,795	69,619	-	-	81,521	10,857	
Pacific	41,862	10,722	3	-	-	41,865	10,722	
Thread	2,574	658	2	-	-	2,576	658	
Jack mackerel	571	168	992	-	-	1,563	309	
Lingcod	221	298	438	-	-	660	926	
Mackerels:								
Atlantic	429	251	12,085	-	-	12,513	4,705	
Chub	13,659	1,679	6,764	-	-	20,423	2,547	
King and cero	206	500	2,155	-	-	2,361	6,797	
Spanish	356	546	1,103	-	-	1,459	1,807	
Menhaden:								
Atlantic	275,433	46,825	797	-	-	276,230	46,979	
Gulf	393,039	44,881	104,362	-	-	497,461	56,857	
Total menhaden	668,532	91,706	105,158	-	-	773,690	103,836	
Mulletts	8,094	9,386	34	-	-	8,129	9,420	
Ocean perch:								
Atlantic	14	18	306	-	-	320	419	
Pacific	41	7	18,404	-	-	18,445	4,072	

(Continued)

See footnotes at end of table

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores			
	0 to 3 miles		3 to 200 miles				Total	
Fish - Continued	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Pollock:								
Atlantic	329	461	5,253	7,640	-	-	5,582	8,101
Walleye (Alaska)	56,998	8,796	1,175,179	181,356	-	-	1,232,177	190,152
Rockfishes:								
Bocaccio	22	25	574	493	-	-	596	518
Canary	39	50	1,274	1,419	-	-	1,313	1,469
Chilepepper	316	295	957	892	-	-	1,273	1,187
Widow	19	17	4,878	3,833	-	-	4,897	3,850
Yellowtail	171	191	3,430	2,815	-	-	3,602	3,006
Other	1,417	1,470	18,680	21,541	-	-	20,098	23,011
Total rockfishes	1,984	2,048	29,794	30,993	-	-	31,778	33,041
Sablefish	3,066	14,968	16,665	76,855	-	-	19,731	91,823
Salmon:								
Chinook or king	6,070	15,119	1,291	3,879	-	-	7,361	18,998
Chum or keta	59,390	22,661	4	1	-	-	59,394	22,662
Pink	150,847	45,577	9	3	-	-	150,856	45,580
Red or sockeye	58,396	150,833	0	1	-	-	58,397	150,834
Silver or coho	15,601	18,224	704	1,157	-	-	16,305	19,381
Total salmon	290,305	252,414	2,008	5,041	-	-	292,313	257,455
Sardines:								
Pacific	30,239	2,566	12,342	1,047	-	-	42,581	3,613
Spanish	489	251	-	-	-	-	489	251
Scup or porgy	707	2,673	1,522	4,208	-	-	2,229	6,881
Sea bass:								
Black (Atlantic)	249	1,091	1,283	4,251	-	-	1,532	5,342
White (Pacific)	24	97	48	198	-	-	71	295
Sea trout or weakfish:								
Gray	2,748	2,915	1,073	1,145	-	-	3,821	4,060
Spotted	264	840	(3)	1	-	-	264	841
Sand (white)	49	73	6	7	-	-	56	80
Shad:								
American	1,940	1,681	45	34	-	-	1,984	1,715
Hickory	43	13	5	1	-	-	48	14

(Continued)

See footnotes at end of table

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)**

U.S. COMMERCIAL LANDINGS

17

Species	Distance from U.S. shores			High Seas or off Foreign Shores			Total	
	0 to 3 miles		3 to 200 miles	Metric Tons		Thousand Dollars	Metric Tons	Thousand Dollars
Fish - Continued	Metric Tons	Thousand Dollars		Metric Tons	Thousand Dollars			
Sharks:								
Dogfish	4,171	1,445	18,106	6,694	-	-	22,277	8,139
Other	618	568	5,256	5,452	1,135	624	7,009	6,644
Sheepshead (Atlantic)	1,354	1,071	11	9	-	-	1,365	1,080
Skates	4,340	1,320	10,932	3,257	-	-	15,272	4,577
Smelts	725	622	99	22	-	-	824	644
Snappers:								
Red	78	765	1,852	9,134	-	-	1,931	9,899
Vermillion	13	50	468	2,230	-	-	480	2,280
Unclassified	110	521	1,530	6,501	-	-	1,639	7,022
Spearfish	7	9	87	113	40	52	134	174
Spot	3,306	2,893	53	41	-	-	3,358	2,934
Striped bass	2,998	9,546	48	153	-	-	3,046	9,699
Swordfish	25	104	5,108	22,236	1,713	6,548	6,846	28,888
Tenpounder (ladyfish)	968	1,173	8	5	-	-	976	1,178
Tilfish	6	16	1,718	5,995	-	-	1,724	6,011
Trout, Rainbow	358	497	-	-	-	-	358	497
Tuna:								
Albacore	1	2	12,479	17,965	7,793	12,708	20,273	30,675
Bigeye	5	24	2,916	18,087	5,056	10,758	7,977	28,869
Bluefin	3	15	2,036	13,812	982	1,620	3,021	15,447
Little tunny	76	30	224	131	-	-	300	161
Skipjack	55	146	494	1,267	123,118	102,223	123,667	103,636
Yellowfin	79	373	3,253	15,311	58,579	62,308	61,912	77,992
Unclassified	2	8	84	194	241	203	327	405
Total tuna	221	598	21,486	66,767	195,769	189,820	217,476	257,185
Whitefish, common	5,679	9,418	-	-	-	-	5,679	9,418
Woolfish, Atlantic	12	14	284	307	-	-	296	321
Yellow perch	557	2,637	(3)	(3)	-	-	557	2,637
Other marine finfishes	11,544	19,521	14,065	16,187	314	1,025	25,943	36,733
Other freshwater finfishes	5,827	3,914	(3)	(3)	-	-	5,827	3,914
Total finfish	1,237,546	531,528	2,323,269	883,221	198,978	198,084	3,759,792	1,612,833

(Continued)

See footnotes at end of table

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Total	
	0 to 3 miles		3 to 200 miles		Metric Tons	Thousand Dollars		
Shellfish	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Clams:								
Quahog (hard)	3,263	41,775	(3)	(3)	-	-	3,263	41,775
Geoduck (Pacific)	655	16,025	(3)	(3)	-	-	655	16,025
Manila (Pacific)	533	8,650	-	-	-	-	533	8,650
Ocean quahog	4,586	5,695	13,512	12,663	-	-	18,098	18,358
Softshell	1,277	12,235	-	-	-	-	1,277	12,235
Surf (Atlantic)	12,022	16,496	12,487	12,706	-	-	24,509	29,202
Other	635	8,992	(3)	(3)	-	-	635	8,992
Total clams	22,971	109,868	25,999	25,369	-	-	48,969	135,237
Conch (snails)	646	1,808	203	640	-	-	849	2,448
Crabs:								
Blue: Hard	98,846	149,141	(3)	(3)	-	-	98,846	149,141
Soft or peeler	3,036	34,316	(3)	(3)	-	-	3,036	34,316
Dungeness	13,771	54,874	1,748	7,020	-	-	15,519	61,894
Jonah	640	705	616	654	-	-	1,256	1,359
King	484	2,511	10,457	54,854	-	-	10,942	57,365
Snow (tanner):								
Opilio	198	245	112,814	139,526	-	-	113,012	139,771
Bairdi	1,218	5,207	(3)	(3)	-	-	1,218	5,207
Other	3,174	6,409	3,709	17,916	-	-	6,882	24,325
Total crabs	121,367	253,408	129,343	219,970	-	-	250,710	473,378
Crawfish, freshwater	10,082	14,637	-	-	-	-	10,082	14,637
Horseshoe crab	1,823	763	1,429	1,396	-	-	3,252	2,159
Lobsters:								
American	31,470	216,011	4,656	37,624	-	-	36,125	253,635
Spiny	1,030	10,234	1,662	14,146	-	-	2,692	24,380
Mussels, blue (sea)	1,321	1,604	-	-	-	-	1,321	1,604
Oysters	15,213	88,627	(3)	(3)	-	-	15,213	88,627

(Continued)

See footnotes at end of table

U.S. COMMERCIAL LANDINGS

19

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CRAFTED OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores				Total	
	0 to 3 miles		3 to 200 miles		Metric Tons		Thousand Dollars		Metric Tons	Thousand Dollars
Shellfish - Continued	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Scallops:										
Bay,	48	368	-	-	-	-	-	-	48	368
Calico, Atlantic	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Sea	500	7,132	5,425	72,474	-	-	-	-	5,924	79,606
Shrimp:										
New England	1,172	2,480	2,517	5,217	-	-	-	-	3,689	7,697
South Atlantic	9,075	52,832	1,798	8,509	-	-	-	-	10,873	61,341
Gulf	54,019	190,582	50,291	238,587	-	-	-	-	104,310	429,169
Pacific	3,102	9,560	3,949	7,213	-	-	-	-	7,051	16,773
Other	20	191	40	382	7	64	7	64	67	637
Total shrimp	67,388	255,645	58,594	259,908	7	64	7	64	125,989	515,617
Squid:										
Atlantic:										
Illex	2,283	1,355	20,434	8,108	-	-	-	-	22,717	9,463
Loligo	2,450	4,302	16,428	27,840	-	-	-	-	18,879	32,142
Unclassified	95	70	605	207	-	-	-	-	700	277
Pacific:										
Loligo	2,520	1,414	190	106	-	-	-	-	2,709	1,520
Unclassified	107	71	-	-	-	-	-	-	107	71
Total, squid	7,454	7,212	37,657	36,261	-	-	-	-	45,112	43,473
Other shellfish	5,731	11,327	741	2,359	-	-	-	-	6,472	13,686
Total shellfish	287,044	978,644	265,709	670,147	7	64	7	64	552,760	1,648,855
Other										
Sea urchin	13,627	27,319	(3)	(3)	-	-	-	-	13,627	27,319
Seaweed, unclassified	25,546	982	-	-	-	-	-	-	25,546	982
Kelp (with herring eggs)	143	1,017	(3)	(3)	-	-	-	-	143	1,017
Worms	299	3,355	-	-	-	-	-	-	299	3,355
Total other	39,615	32,673	-	-	-	-	-	-	39,615	32,673
Grand total, 1998	1,564,205	1,542,845	2,588,977	1,553,368	198,984	198,148	198,984	198,148	4,352,167	3,294,361
Grand total, 1997	1,805,907	1,654,195	2,639,518	1,754,494	189,802	189,802	189,802	189,802	4,635,227	3,408,689

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance-from-shore landings for data collected by the Service and States. (2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States. (3) Less than 500 MT or \$500. (4) Data are confidential and included with other shellfish.

NOTE:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States and catches by U.S.-flag vessels unloaded onto foreign vessels within the EEZ (joint ventures). Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. There may also be differences in totals due to rounding. Data do not include aquaculture products, except oysters or clams

U.S. COMMERCIAL LANDINGS

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1998 (1)

Group / Species	Puerto Rico		Guam	
Fish	<u>Pounds</u>	<u>Dollars</u>	<u>Pounds</u>	<u>Dollars</u>
Ballyhoo	36,968	43,622	-	-
Barracuda	25,468	39,985	2,056	4,046
Billfish:				
Marlin	-	-	28,833	33,141
Sailfish	-	-	1,746	2,295
Spearfish	-	-	88	109
Dolphin (Mahi mahi)	124,586	237,959	173,478	318,766
Emperors	-	-	1,343	3,947
Goatfish	16,682	26,858	580	1,739
Groupers:				
Red hind	48,840	100,610	-	-
Nassau	10,546	18,139	-	-
Other	41,600	85,280	957	2,659
Grunts				
Margate	1,618	2,556	-	-
Other	119,306	171,801	-	-
Jacks:				
Amberjack	-	-	259	743
Bigeye Scad	-	-	5,206	14,190
Rainbow Runner	-	-	1,211	2,744
Rudderfish	-	-	394	1,181
Other	62,354	87,296	2,706	7,382
Mackerel, king and cero	200,656	373,220	-	-
Milkfish	-	-	563	844
Mojarra	20,472	28,661	-	-
Mullet	55,866	65,922	96	256
Parrotfish	113,794	154,760	7,807	23,327
Rabbitfish	-	-	2,172	6,767
Scup or porgy	30,372	48,291	-	-
Sharks, other	46,514	76,283	16	8
Snappers:				
Ehu	-	-	246	967
Gindai (Flower Snap)	-	-	755	2,859
Kalikali	-	-	314	1,099
Lane	176,842	364,295	-	-
Lehi	-	-	1,624	6,495
Mutton	80,854	172,219	-	-
Onaga	-	-	908	4,307
Opakapaka	-	-	730	2,892
Silk	168,778	448,949	-	-
Uku (Gray Snapper)	-	-	431	1,218
Yellowtail	241,608	488,048	-	-
Other	72,878	148,671	1,639	4,535
Total snappers	740,960	1,622,182	6,647	24,372
Snook	42,934	73,417	-	-
Spanish sardine	15,894	21,775	-	-
Squirrelfish	21,310	26,424	111	333
Surgeonfishes:				
Unicornfish	-	-	5,820	17,423
Other	-	-	810	2,419
Tarpon	620	595	-	-
Tilapia	-	-	12,188	30,944
Triggerfish	63,262	101,219	-	-
Trunkfish (boxfish)	77,804	150,940	-	-

(Continued)

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1998 (1) - Continued

Group / Species	Puerto Rico		Guam	
<u>Fish</u>	<u>Pounds</u>	<u>Dollars</u>	<u>Pounds</u>	<u>Dollars</u>
Tuna:				
Dogtooth	-	-	2,148	3,453
Kawakawa	-	-	31	39
Skipjack	-	-	61,332	76,522
Yellowfin	-	-	55,967	121,116
Unclassified	133,130	177,063	-	-
Total tuna	133,130	177,063	119,478	201,130
Wahoo	-	-	67,136	145,828
Wrasse (Hogfish)	54,766	108,984	3,066	7,645
Other marine finfishes	-	-	106,975	317,208
Other freshwater fish	503,116	337,108	-	-
Total fish	2,609,438	4,180,950	677,867	1,396,948
<u>Shellfish, et al</u>				
Crabs, other	6,422	105,000	-	-
Lobster, spiny	250,842	1,347,022	1,808	7,045
Conch (snail) meats	301,812	724,349	-	-
Oysters	1,754	3,824	-	-
Octopus	27,682	72,250	2,223	7,516
Shrimp	-	-	1,592	12,645
Shellfish, other	14,484	41,714	93	381
Total shellfish, et al.	602,996	2,294,159	5,716	27,587
Grand total	3,212,434	6,475,109	557,458	2,821,483

Group / Species	American Samoa		Northern Marianas Islands	
<u>Fish</u>	<u>Pounds</u>	<u>Dollars</u>	<u>Pounds</u>	<u>Dollars</u>
Barracudas	2,120	4,597	124	246
Billfishes:				
Blue marlin	35,646	40,269	4,201	7,460
Sailfish	3,327	4,966	104	210
Dolphin (mahimahi)	22,220	44,559	25,661	55,516
Emperors	869	1,739	13,853	38,784
Goatfish	43	85	1,698	3,684
Groupers:				
Lunartail	680	1,377	-	-
Other	4,221	8,450	7,864	23,424
Jacks:				
Amberjack	-	-	318	1,051
Bigeye Scad	-	-	515	1,691
Black jack	181	331	-	-
Rainbow runner	783	783	754	1,884
Rudderfish	291	581	-	-
Other	1,000	2,038	2,380	7,915
Moonfish (Opah)	443	886	-	-
Mullet	-	-	125	311
Oilfish	123	61	-	-
Parrotfishes	22,464	45,436	1,366	4,263
Rabbitfish	68	137	5,903	19,159
Snappers:				
Blue lined snapper	616	1,257	-	-
Ehu	1,459	4,667	198	665
Gindai (flower snapper)	249	600	1,295	4,374
Gray jobfish	323	645	-	-
Humpback	459	1,013	-	-
Kalikali	-	-	591	2,515

(Continued)

U.S. COMMERCIAL LANDINGS

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1998 (1) - Continued

Group / Species	American Samoa		Northern Marianas Islands	
	Pounds	Dollars	Pounds	Dollars
Fish				
Lehi (silverjaw)	250	779	6,028	24,054
Onaga	3,440	16,128	14,691	63,486
Opakapaka	-	-	2,729	8,769
Stone's snapper	172	343	-	-
Yellow opakapaka	374	842	-	-
Snappers, other	750	1,521	1,746	4,831
Total snappers	8,092	27,795	27,278	108,694
Squirrelfish	1,099	2,230	2,530	5,085
Sunfish (Mola mola)	366	366	-	-
Surgeonfishes:				
Lined surgeon	15,787	31,502	-	-
Striped bristletooth	8,141	16,068	-	-
Unicornfishes	4,038	8,236	210	525
Yellowfin	465	823	-	-
Other	-	-	99	256
Swordfish	3,326	11,879	-	-
Tunas:				
Albacore	636,622	683,254	-	-
Bigeye	5,478	11,741	-	-
Dogtooth	401	737	18,033	43,469
Kawakawa	20	24	-	-
Skipjack	16,672	15,171	167,274	334,648
Yellowfin	67,249	128,655	14,570	31,949
Other	726,442	839,582	2,766	5,786
Total, tuna	1,452,884	1,679,164	202,643	415,852
Wahoo	26,110	51,042	6,299	14,540
Wrasses	471	943	-	-
Other finfishes	4,901	9,731	213,048	520,714
Total fish	1,628,251	2,023,869	544,251	1,339,958
Shellfish, et al				
Crabs	528	2,062	-	-
Lobster, spiny	3,359	13,319	5,586	30,175
Octopus	340	522	764	2,118
Shellfish, Other	2	3	183	958
Total shellfish, et al.	4,229	15,906	6,533	33,251
Grand total	3,260,731	4,063,644	1,095,035	2,713,167

(1) Data in this table are preliminary and represent the latest information available.

U.S. COMMERCIAL LANDINGS

23

ESTIMATED U.S. AQUACULTURE PRODUCTION, 1992 - 1997

Species	1992			1993		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Finfish:						
Baitfish	20,618	9,352	61,183	20,574	9,332	63,033
Catfish	457,367	207,460	273,506	459,013	208,207	325,432
Salmon	23,937	10,858	75,193	25,279	11,466	68,358
Striped bass	3,550	1,610	8,266	5,950	2,699	14,270
Tilapia	9,500	4,309	10,260	12,500	5,670	15,625
Trout	56,264	25,521	53,942	54,642	24,785	54,309
Shellfish:						
Clams	4,282	1,942	11,539	6,125	2,778	12,096
Crawfish	63,032	28,591	34,860	56,784	25,757	28,518
Mussels	282	128	1,162	308	140	927
Oysters	23,986	10,880	82,432	24,399	11,067	76,139
Shrimp (SW)	4,409	2,000	17,637	6,614	3,000	26,455
Miscellaneous	23,955	10,866	94,207	6,613	3,000	97,232
Totals	691,182	313,518	724,187	678,801	307,902	782,394
Species	1994			1995		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Finfish:						
Baitfish	21,709	9,847	68,714	21,759	9,870	72,522
Catfish	439,269	199,251	344,475	446,886	202,706	351,222
Salmon	24,714	11,210	61,915	31,315	14,204	75,991
Striped bass	7,625	3,459	18,835	8,315	3,772	21,156
Tilapia	12,980	5,888	16,225	15,075	6,838	22,613
Trout	52,075	23,621	52,569	55,934	25,371	61,447
Shellfish:						
Clams	4,872	2,210	14,023	4,325	1,962	19,709
Crawfish	49,080	22,263	26,994	58,146	26,375	34,714
Mussels	424	192	1,249	410	186	1,221
Oysters	28,016	12,708	69,928	23,221	10,533	70,628
Shrimp (SW)	4,409	2,000	17,637	2,205	1,000	8,818
Miscellaneous	20,462	9,282	58,545	23,359	10,596	75,243
Totals	665,635	301,930	751,109	690,950	313,413	815,284
Species	1996			1997		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Finfish:						
Baitfish	20,849	9,457	70,254	19,929	9,040	73,580
Catfish	472,123	214,154	364,951	524,949	238,115	372,497
Salmon	30,657	13,906	60,995	39,745	18,028	65,053
Striped bass	7,850	3,561	20,308	8,400	3,810	21,783
Tilapia	15,965	7,242	23,948	16,860	7,648	29,505
Trout	53,620	24,322	56,958	56,710	25,723	60,212
Shellfish:						
Clams	3,834	1,739	20,315	8,141	3,693	30,878
Crawfish	46,584	21,130	34,820	49,232	22,331	49,232
Mussels	986	447	5,085	2,985	1,354	3,365
Oysters	18,546	8,412	64,368	15,737	8,289	39,031
Shrimp (SW)	2,866	1,300	11,464	2,646	1,200	10,582
Miscellaneous	19,813	8,987	152,169	22,625	9,930	177,994
Totals	693,693	314,657	885,635	767,959	348,344	933,712

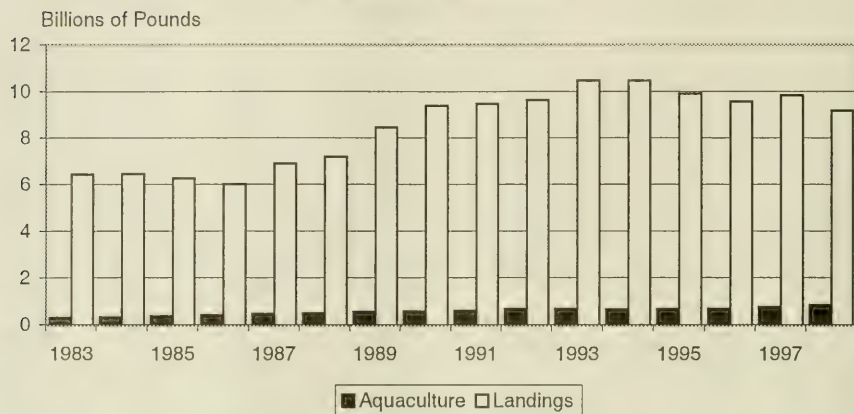
SW--Saltwater.

NOTE:--Table may not add due to rounding. Clams, oysters and mussels are reported as meat weights (excludes shell) while other identified species such as shrimp and finfishes are reported as whole (live) weights. Some clam and oyster aquaculture production are reported with U.S. commercial landings. Weights and values represent the final sales of products to processors and dealers. "Miscellaneous" includes ornamental/tropical fish, alligators, algae, aquatic plants, eels, scallops, crabs, and others. The high value and low production of "Miscellaneous" occurs because production value, but not weight, are reported for many species such as ornamental fishes.

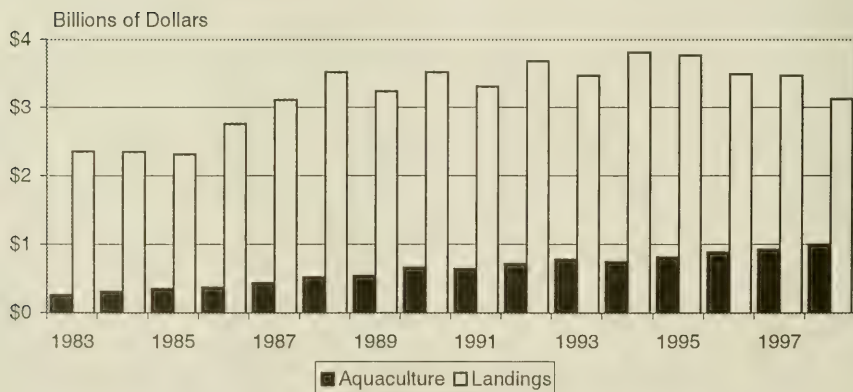
Source:--Fisheries Statistics and Economics Division, F/ST1, NMFS.

U.S. COMMERCIAL LANDINGS

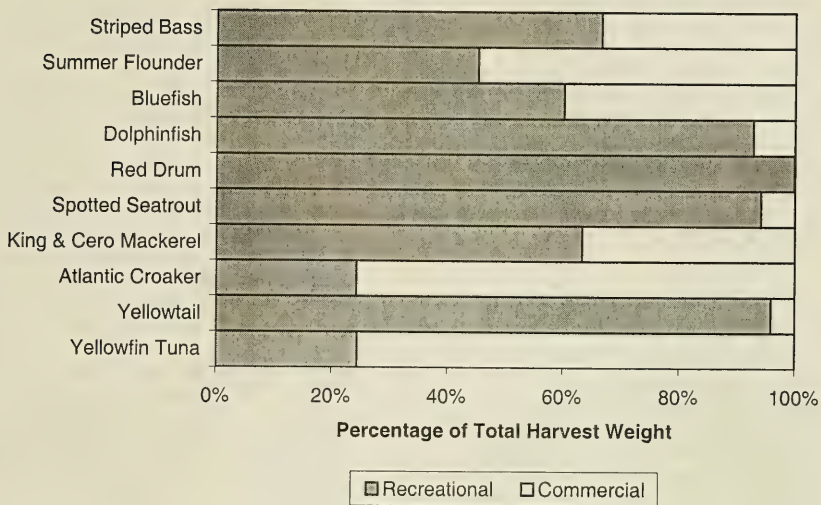
Volume of U.S. Domestic Commercial Landings and Aquaculture Production



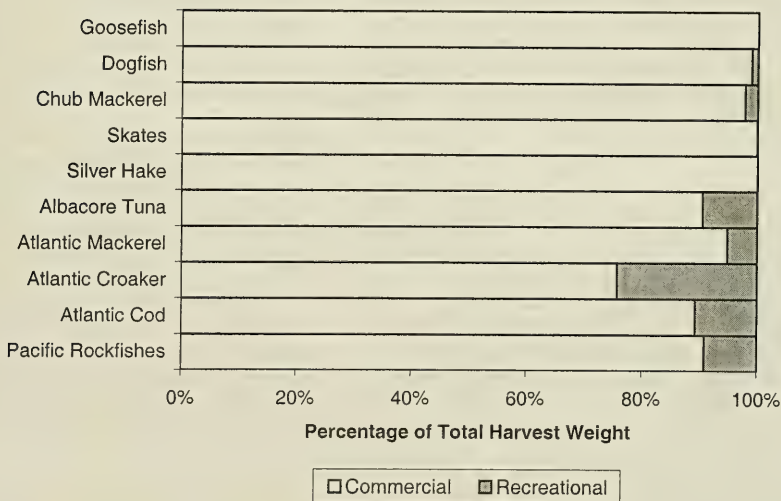
Value of U.S. Domestic Commercial Landings and Aquaculture Production



**Top 10 Recreational Species - Harvest (A1 + B1)
Versus Commercial Harvest - 1998**



**Top 10 Commercial Species
Versus Recreational Harvest - 1998**



Comparisons between the U.S. commercial landings and recreational fish harvests do not include data for Alaska, Hawaii, and Texas because no NMFS recreational surveys were conducted. Menhaden, Pacific Hake, Atlantic Sea Herring and Pacific Sardine were excluded from the commercial landings because they are industrial fisheries and recreational anglers do not target them.

DATA COLLECTION. Data on commercial fisheries were collected for many years, yet before 1979 there was no continuous, systematic collection of marine recreational fishery data. In 1979, NMFS began the comprehensive Marine Recreational Fishery Statistical Survey (MRFSS). Data collected through the MRFSS show that recreational fisheries have tremendous impacts on fish stocks. For several important species recreational landings surpass commercial landings (see figure on preceding page). Detailed information on marine recreational fishing is required to support a variety of fishery management and development purposes and is mandated by the Sustainable Fisheries Act, Public Law 94-265.

The MRFSS consists of an intercept survey of anglers in the field and a telephone survey of coastal county households. The intercept survey collects data on species composition, catch rates, and fish lengths and weights. The telephone survey collects data on the number of marine fishing trips. These independent data are combined to produce estimates of catch, effort, and participation. Catch is divided into three categories – **type A, type B1 and type B2**. **Type A** catch is fish that were caught, landed whole and were available for identification, enumeration, weighing and measuring by trained MRFSS field personnel. **Type B1** catch includes fish that were caught, filleted, released dead, given away, or disposed of in some other way so that the interviewer could not verify the species, sizes, or numbers reported. Fish that were caught and reported as released alive are in **Type B2** category. Estimates are generated by subregion, state, wave (bimonthly sampling period), species, mode, primary area fished and catch type. In addition, economic and demographic data are also obtained.

The MRFSS is being conducted in 1999 along the coast of the entire continental United States, except the states of Texas and Alaska. Sampling coverage varies across the time series (see coverage section). Detailed information and access to the data are available on the Fisheries Statistics and Economics web page (www.st.nmfs.gov/st1). Data from other NMFS and state surveys (SE head boats, Texas, California Passenger Fishing Vessels, Oregon/Washington ocean boats, Pacific salmon, Alaska) are not included in this report.

DATA TABLES. The estimated number of fish caught and weight of the harvest are presented for 128 commonly caught species. The estimated total harvest includes a) fish brought ashore in whole form that were identified, weighed, and measured (A1); and b) fish that were not available for identification (B1). The latter type includes fish used for bait, discarded, filleted or released alive. Harvest does not include fish that were released alive (B2). Estimated catch and harvest is presented by subregion and primary fishing area: inland [sounds, rivers, bays], state territorial seas [ocean to 3 miles from shore, except for Florida's Gulf coast, where state territorial seas extend to 10 miles from shore], and Exclusive Economic Zone (EEZ) [ocean from the edge of the state territorial seas to 200 miles from shore]. The total number of estimated trips and participants are presented by state.

1998 MRFSS DATA. In 1998, over 7.5 million people made 60 million marine recreational fishing trips to the Atlantic, Gulf and Pacific coasts. The estimated marine recreational finfish catch was 312 million fish. Over 55 percent of the number caught were released alive. The estimated total weight of the harvest was 195 million pounds.

The Atlantic and Gulf coasts accounted for 77 percent of the participants, 88 percent of the fishing trips, and 91 percent of the marine recreational finfish catch. Most (56 percent) of the catch came from inland waters, 34 percent from state territorial seas, and 10 percent from the EEZ. The distribution is different for the Atlantic and Gulf coasts versus the Pacific coast. On the Atlantic and Gulf the majority of the trips were from inland waters, while on the Pacific coast more trips were from the state territorial seas.

ATLANTIC AND GULF. In 1998, 5.8 million marine recreational fishing participants took 53 million trips and caught a total of 284 million fish. The estimated number of Atlantic and Gulf coast trips decreased from a five-year high of 61 million trips in 1997 to 53 million in 1998. The estimated number of people engaged in marine recreational fishing on the Atlantic and Gulf coast ranged from a low of 5.8 million in 1998 to a high of 7.6 million in 1994. By subregion, the Gulf of Mexico accounted for the highest numbers of fish caught (44 percent) followed by the Mid-Atlantic (29 percent). Thirty percent of the recreational fishing trips were made in the South Atlantic, 30 percent in the Gulf of Mexico, 27 percent in the Mid-Atlantic, and 13 percent in the North Atlantic.

The most commonly caught non-bait species (numbers of fish) were Atlantic croaker, spotted sea trout, summer flounder, striped bass, bluefish, and black sea bass. Top-ranked non-bait species (catch in numbers) by subregion were striped bass in the North Atlantic, summer flounder in the Mid-Atlantic, spot in the South Atlantic, and spotted sea trout in the Gulf of Mexico. By weight, the largest harvests were striped bass, summer flounder, bluefish, dolphin, red drum, spotted sea trout, and king mackerel. The average weight for all fish combined was 1.4 pounds while the average weights for the top species were 2.9 pounds for bluefish, 9.3 for striped bass, 4.5 for red drum, 6.4 for dolphin, 1.2 for spotted sea trout, 1.8 for summer flounder, and 9.0 for king mackerel.

The catch of striped bass increased steadily and dramatically since 1990 with a catch of nearly 16.5 million fish in 1998. Over 91 percent of striped bass were released alive in 1998. Spotted sea trout, bluefish and Atlantic croaker catches remained relatively steady from 1994-1998. Summer flounder catches increased from 16 million in 1995 to nearly 22 million in 1998.

Ten percent of the catch on the Atlantic and Gulf coasts came from the EEZ. The most commonly caught species in federally managed waters were black sea bass, red snapper, summer flounder, dolphin, striped bass, bluefish and Atlantic cod.

PACIFIC. In 1998, 1.7 million marine recreational fishing participants took 7.0 million trips and caught a total of 28 million fish. Seventy percent of the trips were made in California, followed by 21 percent in Washington, and 9 percent in Oregon.

The most commonly caught non-bait species (numbers of fish) were Pacific (chub) mackerel, surf smelt, kelp bass, Pacific barracuda, black rockfish and barred sand bass. By weight, the largest harvests were yellowtail, black rockfish, Pacific barracuda, lingcod, California halibut and blue rockfish. The average weight for all fish combined was 1.7 pounds. Average weights for some of the top species were: 8.9 pounds for California halibut, 2.1 pounds for black rockfish, 8.5 pounds for yellowtail, 4.6 for Pacific barracuda and 8.0 pounds for lingcod.

Surf smelt jumped from the 1993-1995 average of a little over a million fish to almost 5 million fish in 1998. Pacific barracuda catch has shown no real trend since 1994, ranging from a low of 584,000 fish in 1996 to a high of 1.8 million fish in 1994. Pacific mackerel reached a 4-year high in 1996 with 6.0 million fish caught.

Fifteen percent of the total marine recreational catch on the Pacific coast came from the EEZ. The most commonly caught Pacific coast species in federally managed waters were Pacific mackerel, yellowtail, Pacific barracuda, barred sand bass, blue rockfish, kelp bass, and yellowtail rockfish. The percent of the catch from the state territorial sea was about 43 percent in 1998, while the inland catch increased from 13-17 percent in the early 1990's to 42 percent for 1998.

Coverage of MRFSS Survey 1979-1998

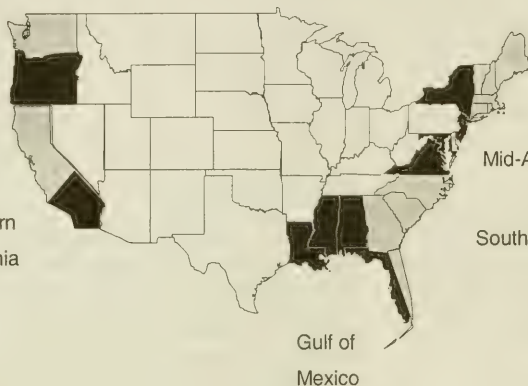
The Marine Recreational Fisheries Statistics Survey provides coverage of saltwater sport fishing (including estuarine and brackish water) from private/rental boats, charter and head boats, and the shore on the Atlantic Coast (Maine-East Florida), Gulf Coast (Louisiana-West Florida), and Pacific coast (Washington through California).

Washington

Oregon

Northern
California

Southern
California



North Atlantic

Mid-Atlantic

South Atlantic

Gulf of
Mexico

Special care is advised when comparing catch estimates for the MRFSS time series because of differences in sampling coverage.

- In the South Atlantic and Gulf sub-regions (NC-LA) the MRFSS has not collected catch data from head boats since 1985, so estimates for these sub-regions now only include charter boats in the for-hire sector.
- Marine recreational fishing in Texas is monitored by the Texas Department of Parks and Wildlife and has not been surveyed by the MRFSS since 1985.
- On the Pacific coast, ocean boat trips during certain waves (bimonthly sampling periods) and salmon trips are not sampled because they are surveyed by the state natural resource agencies.
- Alaska conducts an annual mail survey and has never been surveyed by the MRFSS.
- The U.S. Caribbean and West Pacific territories have not been surveyed by the MRFSS since 1981 and their data are not included in currently available data.

There are other exceptions where the following areas were not sampled during the period specified:

Exceptions to MRFSS Coverage:

Jan/Feb - All regions - 1981

Nov/Dec - ME & NH - 1987-present

CA-WA - 1990-1992

Jan/Feb - No.CA-OR - 1994

Nov/Dec - OR - 1994

Jan/Feb - ME-GA - 1982-present

Mar/Apr - ME & NH - 1996-present

WA - 1993-1994

Jan/Feb - So.CA-OR - 1995

U.S. RECREATIONAL HARVEST (A+B1), BY SPECIES, 1997 AND 1998

Species	1997			1998			Average (1993-97)
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds
Anchovies**							
Northern Anchovy	(1)	(1)	58	(1)	(1)	(1)	(1)
Other Anchovies	(1)	(1)	(1)	-	-	-	(1)
Barracudas	1,698	770	160	1,104	501	142	1,606
Bluefish	14,490	6,574	5,553	12,534	5,687	4,359	14,574
California Scorpionfish	206	93	243	185	84	160	242
Cartilaginous Fishes							
Dogfish Sharks**	546	248	157	545	247	166	427
Skates/Rays**	263	120	114	101	46	69	160
Other Sharks**	3,204	1,454	288	2,604	1,182	276	4,892
Catfishes**							
Freshwater Catfishes	560	254	312	783	355	444	634
Saltwater Catfishes	1,303	591	590	855	388	507	1,057
Cods And Hakes							
Atlantic Cod	2,621	1,189	474	2,952	1,339	463	3,558
Pacific Cod	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pacific Hake	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pacific Tomcod	5	2	16	(1)	(1)	(1)	(1)
Pollock	432	196	152	280	127	183	488
Red Hake	471	214	341	138	63	113	221
Other Cods/Hakes	119	54	58	151	69	77	160
Croakers							
California Corbina	15	7	13	32	15	15	27
Queenfish	9	4	40	10	5	42	22
White Croaker	328	149	583	162	74	434	346
Other Croakers	204	93	138	221	100	119	213
Dolphins**	22,740	10,317	2,255	11,778	5,344	1,829	15,935
Drums							
Atlantic Croaker	8,076	3,664	11,928	8,120	3,684	9,886	6,150
Black Drum	2,351	1,067	632	2,489	1,129	655	2,131
Kingfishes	1,936	878	3,155	1,573	714	2,740	1,742
Red Drum	12,807	5,811	2,503	9,445	4,285	2,107	11,584
Sand Seatrout	1,452	659	2,337	1,739	789	2,663	1,993
Silver Perch	41	19	226	162	74	549	128
Spot	2,702	1,226	6,321	2,971	1,348	6,781	3,053
Spotted Seatrout	10,805	4,903	8,972	9,377	4,255	7,613	10,893
Weakfish**	3,686	1,672	2,809	3,991	1,811	2,352	2,855
Other Drum	185	84	457	99	45	170	120
Eels**	16	7	24	2	1	12	11
Flounders							
California Halibut**	875	397	97	939	426	106	1,237
Gulf Flounder	424	192	283	203	92	152	225
Rock Sole	38	17	39	13	6	14	14
Sanddabs	155	70	446	99	45	259	108
Southern Flounder	1,483	673	934	1,112	505	746	1,457
Starry Flounder	9	4	9	19	9	17	11
Summer Flounder	11,878	5,389	7,178	12,567	5,702	6,965	9,941
Winter Flounder	1,500	681	1,271	700	318	631	1,391
Other Flounders**	798	362	135	858	389	174	447

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY SPECIES, 1997 AND 1998

Species	1997			1998			Average (1993-97)
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds
Greenlings							
Kelp Greenling	164	74	142	117	53	98	130
Lingcod	878	398	126	1,283	582	160	1,011
Other Greenlings	19	9	31	7	3	12	21
Grunts							
Pigfish	396	180	1,098	318	144	896	457
White Grunt	1,546	702	2,063	1,182	536	1,713	1,727
Other Grunts	582	264	1,275	288	131	672	343
Herrings**	1,853	841	35,647	915	415	25,443	1,109
Jacks							
Blue Runner	889	403	1,428	1,195	542	1,786	935
Crevalle Jack	1,575	715	939	772	350	449	1,404
Florida Pompano	458	208	384	632	287	486	380
Greater Amberjack	1,694	768	82	1,242	564	86	1,906
Yellowtail	3,233	1,467	648	5,697	2,585	673	2,037
Other Jacks	243	110	1,366	389	177	485	343
Mullets**	2,410	1,093	2,792	2,410	1,093	2,842	2,362
Pacific Barracuda	1,699	771	374	2,057	933	450	1,854
Porgies							
Pinfishes	1,803	818	8,361	2,517	1,142	7,254	1,724
Red Porgy	85	39	79	66	30	69	136
Scup**	1,205	547	1,923	870	395	1,205	1,651
Sheepshead	4,850	2,201	2,056	4,012	1,820	1,606	5,411
Other Porgies**	393	178	385	106	48	157	216
Puffers	151	69	280	67	30	145	112
Rockfishes							
Black Rockfish	1,173	532	592	2,459	1,116	1,178	1,414
Blue Rockfish	651	296	651	859	390	841	596
Bocaccio	116	53	64	124	56	40	190
Brown Rockfish	109	50	99	92	42	81	92
Canary Rockfish	178	81	114	185	84	107	197
Chilipepper Rockfish	3	(1)	(1)	(1)	(1)	(1)	30
Copper Rockfish	166	75	98	241	109	157	210
Greenspotted Rockfish	32	14	42	33	15	40	91
Olive Rockfish	74	34	56	110	50	77	90
Quillback Rockfish	79	36	44	97	44	53	53
Rockfishes	56	25	69	78	35	102	95
Widow Rockfish	59	27	48	98	44	67	44
Yellowtail Rockfish	450	204	349	447	203	274	304
Other Rockfishes**	650	295	757	751	341	1,108	1,235
Sablefishes	15	7	2	(1)	(1)	(1)	(1)
Sculpins							
Cabezon	195	89	65	293	133	91	219
Sculpins	18	8	73	18	8	38	21
Sea Bases							
Barred Sand Bass	790	359	523	685	311	408	1,043
Black Sea Bass	5,074	2,302	5,696	1,656	751	1,684	4,929
Epinephelus Groupers**	910	413	147	975	442	153	1,462
Kelp Bass	767	348	467	511	232	326	930
Mycteroperca Groupers**	3,489	1,583	498	4,327	1,963	635	3,290
Spotted Sand Bass	66	30	52	22	10	17	76
Other Sea Bases	109	49	497	100	45	310	129

See footnotes at end of table.

U.S. MARINE RECREATIONAL FISHERIES

31

U.S. RECREATIONAL HARVEST (A+B1), BY SPECIES, 1997 AND 1998

Species	1997			1998			Average (1993-97)
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Total Numbers (thousands)</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Total Numbers (thousands)</u>	<u>Thousand pounds</u>
Sea Chubs**							
Halfmoon	28	12	27	-	-	-	39
Opaleye	37	17	30	-	-	-	68
Other Sea Chubs	(1)	(1)	(1)	-	-	-	(1)
Searobins	242	110	238	105	48	200	126
Silversides							
Jacksmelt	162	73	422	149	68	366	203
Other Silversides	7	3	70	3	2	29	11
Smelts**							
Surf Smelt	120	54	1,616	357	162	4,825	233
Other Smelts	(1)	(1)	(1)	-	-	-	(1)
Snappers							
Gray Snapper	1,249	567	996	1,355	615	1,006	1,317
Lane Snapper	404	183	424	225	102	211	276
Red Snapper	4,543	2,061	1,152	4,136	1,876	1,253	3,655
Vermilion Snapper	415	188	401	310	141	275	464
Yellowtail Snapper	551	250	375	389	177	311	493
Other Snappers**	322	146	95	256	116	75	321
Sturgeons	549	249	20	566	257	32	500
Surfperches							
Barred Surfperch	231	105	331	534	242	646	316
Black Perch	54	24	57	62	28	94	54
Pile Perch	43	19	45	49	22	60	52
Redtail Surfperch	36	16	41	91	41	92	73
Shiner Perch	13	6	231	4	2	85	10
Silver Surfperch	27	12	82	12	5	43	17
Striped Seaperch	104	47	110	179	81	199	127
Walleye Surfperch	50	23	159	15	7	59	34
White Seaperch	10	4	24	5	2	22	11
Other Surfperches	72	33	99	55	25	135	55
Temperate Basses							
Striped Bass	16,448	7,463	1,620	13,379	6,071	1,472	12,674
White Perch	1,150	522	2,679	608	276	1,816	808
Other Temperate Basses	(1)	(1)	(1)	7	3	6	(1)
Toadfishes	(1)	(1)	33	2	1	10	(1)
Triggerfishes/Filefishes	1,076	488	506	689	312	349	1,057
Tunas And Mackerels							
Atlantic Mackerel	3,825	1,736	4,548	1,506	684	1,859	2,993
King Mackerel**	11,918	5,407	1,163	8,305	3,768	921	9,755
Little Tunny / Atl.Bonito**	3,381	1,534	394	2,699	1,225	347	3,127
Pacific Bonito**	422	191	114	347	157	71	311
Spanish Mackerel	3,532	1,602	2,245	2,865	1,300	1,727	2,936
Other Tunas/Mackerels**	17,802	8,077	2,967	13,773	6,249	2,129	16,623
Wrasses							
California Sheephead	114	52	35	153	69	47	157
Cunner	33	15	94	10	4	94	54
Tautog	2,196	996	698	1,448	657	351	2,996
Other Wrasses	240	109	98	95	43	63	235
Other Fishes**	10,932	4,960	5,557	6,824	3,096	5,646	17,461
Total Fish	234,128	106,226	163,585	194,628	88,308	135,517	--

(1) Number of fish less than or equal to 10,000 or less than 1 metric ton.

NOTE:-- ** Fish included in these groups are not equivalent to those with similar names listed in the commercial tables.

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 1998

Species	Charter boat			Private/Rental boat			Shore			Grand Total		
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Flounders												
California Halibut**	(1)	(1)	(1)	854	387	96	(1)	(1)	(1)	940	425	105
Gulf Flounder	(1)	(1)	(1)	142	65	102	49	22	44	204	93	153
Rock Sole	(1)	(1)	(1)	12	6	13	(1)	(1)	(1)	12	6	14
Sandbars	4	2	18	71	32	170	24	11	70	99	45	258
Southern Flounder	17	8	12	872	395	576	223	101	158	1,112	504	746
Starry Flounder	-	-	-	(1)	(1)	(1)	11	5	10	19	9	16
Summer Flounder	665	302	358	11,335	5,143	6,280	567	257	327	12,567	5,702	6,965
Winter Flounder	33	15	29	600	272	543	67	30	59	700	317	631
Other Flounders**	(1)	(1)	(1)	694	315	122	3	1	43	858	389	174
Greenlings												
Kelp Greenling	(1)	(1)	(1)	86	39	63	26	12	30	117	53	97
Lingcod	213	97	27	1,003	455	123	68	31	11	1,284	583	161
Other Greenlings	-	-	-	(1)	(1)	(1)	(1)	(1)	(1)	7	3	13
Grunts												
Pigfish	(1)	(1)	(1)	203	92	547	113	51	343	318	144	896
White Grunt	148	67	167	963	437	1,396	71	32	150	1,182	536	1,713
Other Grunts	(1)	(1)	(1)	179	81	424	106	48	241	289	131	671
Herrings**	(1)	(1)	(1)	486	221	16,276	428	194	9,080	914	415	25,443
Jacks												
Blue Runner	70	32	76	322	146	452	803	364	1,257	1,195	542	1,785
Crevalle Jack	(1)	(1)	(1)	377	171	157	382	173	285	772	350	449
Florida Pompano	19	9	12	293	133	189	321	146	285	633	288	486
Greater Amberjack	941	427	48	282	128	22	19	9	16	1,242	564	86
Yellowtail	1,503	682	185	4,194	1,903	488	-	-	-	5,697	2,585	673
Other Jacks	151	69	30	157	71	243	81	37	212	389	177	485
Mullies**	(1)	(1)	(1)	1,176	533	1,620	1,230	558	1,221	2,410	1,093	2,842
Pacific Barracuda	1,175	533	259	882	400	191	(1)	(1)	(1)	2,058	933	450
Porgies												
Pinfishes	(1)	(1)	(1)	1,886	856	4,402	625	284	2,846	2,516	1,142	7,254
Red Porgy	59	27	62	(1)	(1)	(1)	-	-	-	66	30	69
Scup**	169	77	165	650	295	924	51	23	116	870	395	1,205
Sheepshead	95	43	27	3,067	1,392	1,210	850	386	368	4,012	1,821	1,605
Other Porgies**	22	10	28	65	30	67	18	8	62	105	48	157
Puffers	(1)	(1)	(1)	42	19	88	25	11	56	67	30	145

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B¹), BY MODE OF FISHING AND SPECIES GROUP, 1998

Species	Charter boat			Private/Rental boat			Shore			Grand Total		
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Northern Anchovy												
Barracudas	697	316	72	-	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Bluefish	3,110	1,411	643	260	118	49	147	67	22	1,104	501	143
California Scorpionfish	112	51	102	7,191	3,263	2,087	2,234	1,014	1,629	12,535	5,688	4,359
Carliniginous Fishes				72	33	58	(1)	(1)	(1)	185	84	161
Dogfish Sharks**	61	28	21	480	218	142	(1)	(1)	(1)	545	248	166
Skates/Rays**	(1)	(1)	(1)	63	29	33	37	17	35	101	46	69
Other Sharks**	525	238	22	1,577	715	169	502	228	84	2,604	1,181	275
Catfishes**												
Freshwater Catfishes	(1)	(1)	(1)	454	206	260	328	149	184	784	356	445
Saltwater Catfishes	(1)	(1)	(1)	462	210	268	387	176	237	855	389	508
Cods And Hakes												
Atlantic Cod	1,977	897	324	974	442	139	-	-	-	2,951	1,339	463
Pacific Cod	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pacific Hake	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pacific Tomcod	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pollock	59	27	54	84	38	100	136	62	29	279	127	183
Red Hake	136	62	111	(1)	(1)	(1)	(1)	(1)	(1)	138	63	113
Other Cods/Hakes	60	27	22	87	40	29	4	2	27	151	69	78
Croakers												
California Corbina	-	-	-	(1)	(1)	(1)	30	14	14	32	15	15
Queenfish	-	-	-	4	2	16	6	3	26	10	5	42
White Croaker	6	3	13	74	34	165	82	37	257	162	74	435
Other Croakers	(1)	(1)	(1)	144	66	30	62	28	87	221	101	119
Dolphins**	7,177	3,256	1,165	4,601	2,088	664	(1)	(1)	(1)	11,778	5,344	1,829
Durns												
Atlantic Croaker	457	207	569	6,827	3,098	7,770	835	379	1,547	8,119	3,684	9,886
Black Drum	193	87	21	1,793	814	493	503	228	140	2,489	1,129	654
Kingfishes	19	8	28	705	320	1,182	849	385	1,530	1,573	713	2,740
Red Drum	1,181	536	142	7,517	3,410	1,789	747	339	177	9,445	4,285	2,108
Sand Seatrout	60	27	74	1,390	631	2,076	290	131	513	1,740	789	2,663
Silver Perch	(1)	(1)	(1)	78	35	264	84	38	285	162	73	549
Spot												
Spotted Seatrout	47	21	112	1,791	812	3,664	1,133	514	3,005	2,971	1,347	6,781
Weakfish**	617	280	477	8,046	3,651	6,547	714	324	590	9,377	4,255	7,614
Other Drum	196	89	147	3,577	1,623	2,015	11	99	190	3,991	1,811	2,352
Eels**												
Eels**	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	99	46	171
										2	1	12

See footnotes at end of table.

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 1998

Species	Charter boat			Private/Rental boat			Shore			Grand Total		
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Rockfishes												
Black Rockfish	777	353	377	1,647	747	784	35	16	17	2,459	1,116	1,178
Blue Rockfish	466	211	467	390	177	370	(1)	(1)	(1)	860	390	841
Bocaccio	78	36	28	46	21	12	-	-	-	124	57	40
Brown Rockfish	15	7	14	76	35	65	(1)	(1)	(1)	92	43	80
Canary Rockfish	112	51	56	73	33	50	-	-	-	185	84	106
Chilipepper Rockfish	(1)	(1)	(1)	(1)	(1)	(1)	-	-	-	(1)	(1)	(1)
Copper Rockfish	54	24	32	184	84	123	(1)	(1)	(1)	241	109	157
Greenspotted Rockfish	20	9	27	13	6	13	-	-	-	33	15	40
Olive Rockfish	48	22	35	62	28	42	-	-	-	110	50	77
Quillback Rockfish	(1)	(1)	(1)	88	40	48	(1)	(1)	(1)	96	44	53
Rockfishes	20	9	32	51	23	60	6	3	10	77	35	102
Widow Rockfish	92	42	63	(1)	(1)	(1)	-	-	-	98	45	67
Yellowtail Rockfish	327	148	190	120	54	84	-	-	-	447	202	274
Other Rockfishes**	301	137	644	432	196	450	18	8	15	751	341	1,109
Sablefishes	(1)	(1)	(1)	(1)	(1)	(1)	-	-	-	(1)	(1)	(1)
Sculpins												
Cabezon	(1)	(1)	(1)	175	80	43	98	44	43	294	133	91
Sculpins	(1)	(1)	(1)	10	4	15	6	3	21	19	8	39
Sea Basses												
Barred Sand Bass	243	110	155	435	197	248	(1)	(1)	(1)	685	310	407
Black Sea Bass	855	388	865	781	354	796	19	9	23	1,655	751	1,684
Epinephelus Groupers**	255	116	37	715	324	115	(1)	(1)	(1)	975	442	153
Kelp Bass	180	82	138	324	147	181	(1)	(1)	(1)	510	232	326
Myliopora Groupers**	1,841	835	233	2,243	1,018	345	243	110	57	4,327	1,963	635
Spotted Sand Bass	(1)	(1)	(1)	18	8	14	(1)	(1)	(1)	22	10	17
Other Sea Basses	8	4	15	84	38	272	8	3	22	100	45	309
Sea Chubs**												
Halfmoon	(1)	(1)	(1)	11	5	15	(1)	(1)	(1)	15	7	21
Opaleye	(1)	(1)	(1)	18	8	33	54	25	54	87	33	87
Searobins	3	1	12	77	35	144	25	11	43	105	47	199
Silversides												
Jacksmelt	(1)	(1)	(1)	18	8	39	131	59	327	149	67	386
Other Silversides	-	-	-	(1)	(1)	(1)	3	2	29	3	2	29
Surf Smelt	-	-	-	(1)	(1)	(1)	357	162	4,817	357	162	4,826

See footnotes at end of table.

U.S. MARINE RECREATIONAL FISHERIES

35

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 1998

Species	Charter boat			Private/Rental boat			Shore			Grand Total		
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Snappers												
Gray Snapper	225	102	91	898	407	698	232	105	217	1,355	614	1,006
Lane Snapper	52	24	51	169	77	157	(1)	(1)	(1)	224	102	211
Red Snapper	3,013	1,367	1,013	1,122	509	240	(1)	(1)	(1)	4,135	1,876	1,253
Vermilion Snapper	284	129	249	26	12	27	-	-	-	310	141	276
Yellowtail Snapper	163	74	137	227	103	174	(1)	(1)	(1)	390	177	311
Other Snappers**	67	31	19	164	74	48	(1)	(1)	(1)	256	116	75
Surgeons	(1)	(1)	(1)	514	233	30	(1)	(1)	(1)	566	257	32
Surfperches												
Barred Surfperch	-	-	-	(1)	(1)	(1)	532	241	644	534	242	646
Black Perch	(1)	(1)	(1)	16	7	29	45	20	65	61	27	94
Pile Perch	-	-	-	20	9	23	29	13	37	49	22	60
Redtail Surfperch	-	-	-	(1)	(1)	(1)	91	41	92	91	41	92
Shiner Perch	-	-	-	(1)	(1)	(1)	4	2	84	4	2	86
Silver Surfperch	-	-	-	(1)	(1)	(1)	11	5	4	12	5	43
Striped Seaperch	-	-	-	17	8	23	162	74	176	179	82	199
Walleye Surfperch	-	-	-	(1)	(1)	(1)	15	7	57	16	7	59
White Seaperch	-	-	-	(1)	(1)	(1)	4	2	18	4	2	22
Other Surfperches	(1)	(1)	(1)	14	6	15	41	19	118	55	25	134
Temperate Basses												
Striped Bass	1,928	875	188	10,107	4,586	1,149	1,345	610	135	13,380	6,071	1,472
White Perch	(1)	(1)	(1)	416	189	1,123	191	87	691	607	276	1,815
Other Temperate Basses	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Toadfishes	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	2	1	10
Triggersfishes/Fliesfishes	396	179	201	277	126	139	(1)	(1)	(1)	689	312	349
Tunas And Mackerels												
Atlantic Mackerel	240	109	248	1,121	508	1,266	145	66	345	1,508	683	1,859
King Mackerel**	4,958	2,250	518	3,255	1,477	326	92	42	77	8,305	3,769	921
Little Tunny/Atlantic Bonito**	1,821	826	229	871	395	117	(1)	(1)	(1)	2,700	1,224	347
Pacific Bonito**	167	76	34	169	77	35	(1)	(1)	(1)	347	158	71
Spanish Mackerel	391	178	210	1,554	705	809	920	417	707	2,865	1,300	1,726
Other Tunas/Mackerels**	8,174	3,709	729	5,321	2,414	809	278	126	591	13,773	6,249	2,129
Wrasses												
California Sheephead	36	16	17	113	51	30	(1)	(1)	(1)	153	69	49
Cunner	(1)	(1)	(1)	2	1	19	5	2	67	9	4	94
Tautog	244	111	55	1,040	472	255	164	75	41	1,448	658	351
Other Wrasses	(1)	(1)	(1)	91	41	59	(1)	(1)	(1)	96	43	63
Other Fishes**	1,163	528	205	6,639	3,012	3,454	750	340	1,987	8,552	3,880	5,646
Grand Total	51,381	23,318	13,425	121,537	55,145	82,404	21,711	9,847	39,688	194,629	88,310	135,517

(1) Number of fish less than or equal to 10,000 or less than 1 metric ton.

NOTE:-- ** Fish included in these groups are not equivalent to those with names listed in the commercial tables.

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1998

Species	Inland				0 to 3 miles ¹ (State Territorial Sea)				3 to 200 miles (Exclusive Economic Zone)				Grand Total			
	Thousand Pounds	Metric Tons	Total Numbers (thousands)		Thousand Pounds	Metric Tons	Total Numbers (thousands)		Thousand Pounds	Metric Tons	Total Numbers (thousands)		Thousand Pounds	Metric Tons	Total Numbers (thousands)	
Northern Anchovy	(2)	(2)	(2)		(2)	(2)	(2)		-	-	-		(2)	(2)	(2)	
Barracudas	133	60	40		400	182	46		571	259	56		1,104	501	142	
Bluefish	5,180	2,350	2,228		4,067	1,845	1,605		3,287	1,492	526		12,534	5,687	4,359	
California Scorpionfish	(2)	(2)	(2)		95	43	78		81	37	74		185	84	160	
Cartilaginous Fishes																
Dogfish Sharks**	467	212	137		18	8	11		60	27	18		545	247	166	
Skates/Rays**	41	19	46		53	24	22		(2)	(2)	(2)		101	46	69	
Other Sharks**	604	274	127		605	275	89		1,395	633	60		2,604	1,182	276	
Cartfishes**																
Freshwater Catfishes	767	348	432		16	7	13		-	-	-		783	355	445	
Saltwater Catfishes	527	239	309		323	147	196		(2)	(2)	(2)		854	388	507	
Cods And Hakes																
Atlantic Cod	(2)	(2)	(2)		195	88	33		2,750	1,239	427		2,952	1,339	463	
Pacific Cod	(2)	(2)	(2)		(2)	(2)	(2)		(2)	(2)	(2)		(2)	(2)	(2)	
Pacific Hake	(2)	(2)	(2)		(2)	(2)	(2)		(2)	(2)	(2)		(2)	(2)	(2)	
Pacific Tomcod	(2)	(2)	(2)		(2)	(2)	(2)		-	-	-		(2)	(2)	(2)	
Pollock	145	66	48		34	15	45		101	46	90		280	127	183	
Red Hake	(2)	(2)	(2)		12	5	13		126	57	100		138	62	113	
Other Cods/Hakes	7	3	26		(2)	(2)	(2)		142	64	43		151	68	77	
Croakers																
California Corbina	(2)	(2)	(2)		30	13	14		-	-	-		32	14	15	
Queenfish	7	3	25		3	2	18		-	-	-		10	5	43	
White Croaker	105	47	275		54	24	151		(2)	(2)	(2)		163	73	434	
Other Croakers	10	5	14		180	82	92		31	14	13		221	101	119	
Dolphins**	106	48	20		400	181	109		11,272	5,114	1,700		11,778	5,343	1,829	
Drums																
Atlantic Croaker	7,248	3,289	8,535		511	232	914		360	164	437		8,119	3,685	9,886	
Black Drum	1,911	867	492		500	227	143		78	36	20		2,489	1,130	655	
Kingsfishes	586	266	1,033		935	424	1,644		52	24	62		1,573	714	2,739	
Red Drum	6,853	3,109	1,707		2,130	966	341		461	209	58		9,444	4,284	2,106	
Sand Seatrout	1,336	606	2,031		316	144	520		87	40	111		1,739	790	2,662	
Silver Perch	89	40	295		74	33	254		*	*	*		163	73	549	
Spot	1,917	870	4,049		1,007	457	2,614		46	21	118		2,970	1,348	6,761	
Spotted Seatrout	6,774	3,074	5,710		2,318	1,052	1,709		285	129	195		9,377	4,255	7,614	
Weakfish**	2,945	1,336	1,765		922	419	513		124	56	74		3,991	1,811	2,352	
Other Drum	76	34	104		22	10	60		(2)	(2)	(2)		100	45	170	
Eels**	1	(2)	10		(2)	(2)	(2)		(2)	(2)	(2)		2	1	13	

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1998

Species	Distance from U.S. shores						3 to 200 miles (Exclusive Economic Zone)						Grand Total	
	0 to 3 miles ¹ (State Territorial Sea)			(Exclusive Economic Zone)			(Exclusive Economic Zone)			(Exclusive Economic Zone)			Thousand Pounds	Metric Tons
	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons
Flounders														
California Halibut**	415	188	45	451	205	52	(2)	(2)	(2)	939	426	106		
Gulf Flounder	98	44	77	95	43	69	(2)	(2)	(2)	204	92	152		
Rock Sole	13	6	13	(2)	(2)	(2)	(2)	(2)	(2)	13	6	13		
Sanddabs	74	34	178	18	8	56	8	3	24	100	45	258		
Southern Flounder	803	364	553	290	132	185	(2)	(2)	(2)	1,112	505	747		
Slary Flounder	17	8	16	(2)	(2)	(2)	(2)	(2)	(2)	19	9	17		
Summer Flounder	8,996	4,082	5,042	2,814	1,277	1,492	757	343	431	12,567	5,702	6,965		
Winter Flounder	610	277	552	58	26	44	32	14	35	700	317	631		
Other Flounders**	502	228	101	42	19	53	314	142	20	858	389	174		
Greenlings														
Kelp Greenling	79	36	61	36	16	33	(2)	(2)	(2)	118	54	97		
Lingcod	319	145	39	639	290	83	326	148	38	1,284	583	160		
Other Greenlings	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	7	4	12		
Grunts														
Pigfish	210	95	583	90	41	262	18	8	51	318	144	896		
White Grunt	280	127	469	391	178	531	510	231	712	1,181	536	1,712		
Other Grunts	55	25	114	217	98	492	16	7	65	288	130	671		
Herrings**	802	364	19,377	110	50	5,216	3	2	850	915	416	25,443		
Jacks														
Blue Runner	484	220	741	511	232	760	200	91	284	1,195	543	1,785		
Crevalle Jack	374	169	240	362	164	189	36	16	20	772	349	449		
Florida Pompano	331	150	213	301	137	272	(2)	(2)	(2)	632	287	485		
Greater Amberjack	19	9	16	(2)	(2)	(2)	1,123	509	62	1,242	563	86		
Yellowtail	(2)	(2)	(2)	1,501	681	170	4,139	1,878	494	5,696	2,584	673		
Other Jacks	73	33	134	162	74	190	154	70	161	389	177	485		
Mullet**	1,618	734	1,956	756	343	821	35	16	65	2,409	1,093	2,842		
Pacific Barracuda	(2)	(2)	(2)	1,139	517	251	899	408	195	2,057	934	451		
Porgies														
Pinfishes	1,710	776	4,502	657	298	2,205	150	68	547	2,517	1,142	7,254		
Fed Porgy	-	-	-	17	8	18	49	22	51	66	30	69		
Scup**	550	249	866	157	71	207	163	74	132	870	394	1,205		
Sheepshead	3,068	1,392	1,256	820	372	316	125	57	34	4,013	1,821	1,606		
Other Porgies**	33	15	67	37	17	61	35	16	28	105	48	156		
Puffers	53	24	111	13	6	30	(2)	(2)	(2)	67	31	145		

See footnotes at end of table.

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1998

Species	Distance from U.S. shores						Grand Total					
	Inland			(State Territorial Sea) 0 to 3 miles ¹			(Exclusive Economic Zone) 3 to 200 miles					
	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)
Rockfishes												
Black Rockfish	450	204	137	1,652	750	874	356	162	168	2,458	1,116	1,179
Blue Rockfish	(2)	(2)	(2)	598	271	575	258	117	262	860	390	841
Bocaccio	(2)	(2)	(2)	27	12	12	97	44	28	125	56	40
Brown Rockfish	(2)	(2)	(2)	65	30	58	21	9	17	92	42	80
Canary Rockfish	(2)	(2)	(2)	67	30	53	108	49	51	185	83	107
Chilepepper Rockfish	-	-	-	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Copper Rockfish	130	59	92	83	38	51	27	12	14	240	109	157
Greenspotted Rockfish	(2)	(2)	(2)	(2)	(2)	(2)	29	13	35	33	14	41
Olive Rockfish	(2)	(2)	(2)	68	31	46	42	19	30	110	50	77
Quillback Rockfish	76	34	42	(2)	(2)	(2)	(2)	(2)	(2)	96	44	53
Rockfishes	6	3	10	60	27	74	12	5	18	78	35	102
Widow Rockfish	(2)	(2)	(2)	(2)	(2)	(2)	92	42	42	98	45	67
Yellowtail Rockfish	(2)	(2)	(2)	96	44	74	342	155	196	447	203	273
Other Rockfishes**	54	25	32	337	153	516	360	163	560	751	341	1,108
Sablefishes	-	-	-	-	-	-	(2)	(2)	(2)	(2)	(2)	(2)
Sculpins												
Cabezon	95	43	34	170	77	50	(2)	(2)	(2)	294	133	92
Sculpins	13	6	33	(2)	(2)	(2)	(2)	(2)	(2)	17	8	38
Sea Bases												
Barred Sand Bass	64	29	44	373	169	220	249	113	144	686	311	408
Black Sea Bass	99	45	117	191	87	215	1,366	620	1,352	1,656	752	1,684
Epinephelus Groupers	(2)	(2)	(2)	94	43	21	832	378	124	974	443	152
Kelp Bass	25	11	17	393	178	251	93	42	58	511	231	326
Myxoperca Groupers	507	230	107	823	373	135	2,997	1,360	394	4,327	1,963	636
Spotted Sand Bass	18	8	14	(2)	(2)	(2)	(2)	(2)	(2)	22	10	17
Other Sea Bases	14	6	64	42	19	108	44	20	138	100	45	310
Sea Chubs**												
Halibut	(2)	(2)	(2)	10	5	10	(2)	(2)	(2)	15	7	20
Opaleye	16	7	23	56	25	64	-	-	-	72	32	87
Seabreams	70	32	95	29	13	97	(2)	(2)	(2)	105	48	200
Silverides												
Jacksnelt	125	57	291	23	11	74	(2)	(2)	(2)	148	68	366
Other Silversides	1	(2)	10	3	1	19	-	-	-	4	1	29
Surf Smelt	151	69	2,419	206	94	2,406	-	-	-	357	163	4,825

See footnotes at end of table.

U.S. MARINE RECREATIONAL FISHERIES

39

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1998

Species	Distance from U.S. shores						Grand Total					
	0 to 3 miles (1)			(State Territorial Sea)			3 to 200 miles			(Exclusive Economic Zone)		
	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)
Snappers												
Gray Snapper	439	199	474	554	251	387	362	164	146	1,355	614	1,007
Lane Snapper	(3)	18	39	120	55	97	65	30	75	224	103	211
Red Snapper	(2)	(2)	(2)	849	385	258	3,261	1,480	991	4,135	1,876	1,254
Vermilion Snapper	(2)	(2)	(2)	38	17	39	273	124	236	311	141	275
Yellowtail Snapper	(2)	(2)	(2)	197	89	137	192	87	174	389	176	311
Other Snappers**	64	29	27	86	39	23	106	48	26	256	116	76
Sturgeons	390	177	24	(2)	(2)	(2)	(2)	(2)	(2)	567	257	32
Surfperches												
Barred Surfperch	65	30	74	469	213	572	-	-	-	534	243	646
Black Perch	42	19	64	18	8	28	(2)	(2)	(2)	61	28	95
Pile Perch	46	21	56	(2)	(2)	(2)	(2)	(2)	(2)	48	22	60
Redtail Surfperch	10	4	14	81	37	78	-	-	-	91	41	92
Shiner Perch	3	1	61	1	(2)	24	-	-	-	4	1	85
Silver Surfperch	(2)	(2)	(2)	10	5	35	-	-	-	12	6	43
Striped Seaperch	88	40	120	91	41	79	(2)	(2)	(2)	179	81	199
Walleye Surfperch	6	3	18	10	4	41	(2)	(2)	(2)	16	7	59
White Seaperch	4	2	15	(2)	(2)	(2)	(2)	(2)	(2)	5	3	22
Other Surfperches	30	14	64	25	11	68	(2)	(2)	(2)	55	25	135
Temperate Basses												
Striped Bass	8,046	3,651	1,069	3,844	1,744	286	1,490	676	117	13,380	6,071	1,472
White Perch	596	271	1,810	(2)	(2)	(2)	(2)	(2)	(2)	607	276	1,816
Other Temperate Basses	(2)	(2)	(2)	-	-	-	(2)	(2)	(2)	(2)	(2)	(2)
Toadfishes	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	2	1	10
Triggenfishes/Fliefishes	41	19	19	247	112	137	400	181	193	689	312	349
Tunas And Mackerels												
Atlantic Mackerel	662	300	822	364	165	472	480	218	565	1,506	683	1,859
King Mackerel**	135	61	15	2,679	1,216	344	5,491	2,491	561	8,305	3,768	920
Little Tunny/Atlantic Bonito**	136	62	18	939	426	118	1,625	737	211	2,700	1,225	347
Pacific Bonito**	(2)	(2)	(2)	163	74	34	179	81	37	347	157	72
Spanish Mackerel	762	355	598	1,421	645	818	663	301	310	2,866	1,301	1,726
Other Tunas/Mackerels**	312	142	278	1,009	458	763	12,452	5,650	1,088	13,773	6,250	2,129
Wrasses												
California Sheephead	(2)	(2)	(2)	129	58	36	22	10	12	153	69	49
Cunner	7	3	73	(2)	(2)	13	(2)	(2)	(2)	10	4	94
Tautog	762	355	219	368	167	74	298	135	57	1,448	657	350
Other Wrasses	(2)	(2)	(2)	33	15	22	60	27	34	95	43	62
Other Fishes**	3,306	1,500	3,837	2,989	1,356	1,078	2,257	1,024	731	8,552	3,880	5,646
Total Fish	77,609	35,212	80,270	49,417	22,423	37,441	67,601	30,674	17,802	194,627	88,309	135,513

(1) Except West Florida where the state territorial seas extend 0 to 10 miles. (2) Number of fish less than or equal to 10,000 or less than 1 metric ton.

NOTE:-- ** Fish included in these groups are not equivalent to those with similar names listed in the commercial tables.

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2),
BY SPECIES GROUP, 1989-1998

Year	Barracudas			Bluefish		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
1989	857	99	409	40,973	14,100	5,415
1990	1,225	158	301	30,905	11,567	5,306
1991	1,349	227	755	33,957	12,420	6,831
1992	1,105	173	627	24,775	7,479	4,511
1993	1,323	196	592	20,636	5,917	4,384
1994	1,656	211	695	15,988	6,056	6,349
1995	1,623	243	665	14,771	5,371	5,568
1996	1,951	228	604	15,085	4,779	5,592
1997	1,698	160	428	14,490	5,553	7,549
1998	1,104	142	381	12,534	4,359	5,248

Year	Cartilaginous Fishes			Catfishes		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
1989	8,558	904	3,652	1,859	1,756	11,126
1990	4,983	640	3,253	2,285	1,774	12,642
1991	2,467	681	4,068	3,770	2,479	16,741
1992	5,075	545	4,113	2,180	1,704	12,862
1993	5,293	645	4,707	2,159	1,764	12,018
1994	4,349	597	5,903	1,886	1,595	14,223
1995	10,635	590	5,354	1,527	1,237	13,289
1996	5,149	554	6,084	1,544	983	8,084
1997	4,013	559	6,725	1,863	902	10,532
1998	3,250	511	6,610	1,638	952	7,529

Year	Cods and Hakes			Dolphins		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
1989	9,374	3,261	1,379	13,495	2,678	245
1990	9,749	3,254	1,038	12,773	1,840	85
1991	10,562	2,803	950	17,205	2,618	524
1992	2,994	1,178	472	9,788	1,318	166
1993	7,485	1,954	1,477	10,894	1,762	177
1994	5,123	1,636	1,590	12,795	2,215	236
1995	5,823	1,623	1,603	19,787	2,280	333
1996	4,048	883	828	12,573	1,675	233
1997	3,650	1,041	782	22,740	2,255	231
1998	3,524	841	1,036	11,778	1,829	178

See footnotes at end of table.

U.S. MARINE RECREATIONAL FISHERIES

41

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1989-1998

Year	Drums			Flounders		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
1989	35,336	34,844	24,150	9,915	8,393	4,390
1990	23,936	30,262	31,030	9,854	8,311	8,128
1991	40,235	49,309	56,407	13,136	10,954	12,773
1992	35,271	40,646	35,462	10,101	7,303	8,775
1993	33,675	38,144	39,677	13,253	10,526	20,422
1994	38,698	48,718	48,959	13,815	9,891	15,377
1995	41,853	41,236	41,477	11,354	6,737	15,930
1996	38,687	34,840	37,656	15,317	10,840	16,499
1997	44,041	39,340	49,910	17,161	10,390	16,795
1998	39,967	35,516	42,883	16,511	9,063	18,838
Year	Grunts			Herrings		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
1989	2,186	4,645	5,323	486	10,575	4,754
1990	2,384	4,503	4,704	903	13,516	7,331
1991	3,176	5,125	10,713	3,082	31,300	2,641
1992	2,979	4,831	6,757	2,034	23,974	4,959
1993	2,347	4,461	7,108	753	28,244	6,499
1994	2,890	5,633	8,256	762	26,411	12,137
1995	3,082	5,485	7,771	959	25,347	4,803
1996	2,350	3,818	6,156	1,057	21,637	7,969
1997	2,525	4,436	6,618	1,853	35,647	3,855
1998	1,788	3,280	5,373	915	25,443	6,997
Year	Jacks			Mullet		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
1989	9,830	2,839	3,066	1,735	3,088	1,778
1990	4,231	2,044	3,980	2,061	2,283	1,522
1991	7,478	5,185	5,239	5,036	4,883	796
1992	5,934	5,549	6,017	5,185	5,240	331
1993	8,423	5,783	6,659	2,389	3,947	239
1994	6,269	4,150	7,198	3,095	3,893	495
1995	4,838	3,270	5,513	2,058	4,074	587
1996	5,893	3,459	4,884	1,835	2,705	907
1997	8,091	4,846	7,009	2,410	2,792	393
1998	9,928	3,966	7,556	2,410	2,842	432

See footnotes at end of page.

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2),
BY SPECIES GROUP, 1989-1998

Year	Porgies			Puffers		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u>	<u>Harvested</u>	<u>Released</u>	<u>harvested</u>	<u>Harvested</u>	<u>Released</u>
	(thousand)	(thousands)	(thousands)	(thousand)	(thousands)	(thousands)
1989	12,934	17,113	10,448	352	611	856
1990	8,968	14,090	8,076	176	381	830
1991	14,608	23,440	14,998	302	830	2,066
1992	13,389	17,502	12,316	359	743	1,357
1993	11,373	15,738	10,585	167	338	986
1994	10,054	13,659	13,048	97	248	893
1995	10,705	14,376	11,999	130	250	685
1996	9,020	13,113	10,782	114	246	566
1997	8,337	12,804	14,256	151	280	748
1998	7,570	10,290	13,129	67	145	545

Year	Sculpins			Sea Basses		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u>	<u>Harvested</u>	<u>Released</u>	<u>harvested</u>	<u>Harvested</u>	<u>Released</u>
	(thousand)	(thousands)	(thousands)	(thousand)	(thousands)	(thousands)
1989	1	6	265	12,507	11,061	11,325
1990	1	5	118	7,743	6,927	12,428
1991	2	2	53	10,401	9,003	14,984
1992	7	9	45	9,759	6,629	12,587
1993	278	245	858	14,290	10,715	13,854
1994	188	87	289	11,788	7,921	14,502
1995	191	140	457	15,338	10,903	17,483
1996	297	163	383	12,688	8,748	13,088
1997	213	138	468	11,205	7,880	15,688
1998	312	130	318	8,276	3,532	11,538

Year	Searobins			Snappers		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u>	<u>Harvested</u>	<u>Released</u>	<u>harvested</u>	<u>Harvested</u>	<u>Released</u>
	(thousand)	(thousands)	(thousands)	(thousand)	(thousands)	(thousands)
1989	146	351	2,628	6,549	5,078	2,694
1990	188	329	4,980	4,712	3,388	3,089
1991	317	486	7,788	7,670	5,485	11,339
1992	205	261	4,507	7,431	4,207	7,445
1993	156	245	7,481	8,214	4,989	7,941
1994	48	125	4,582	7,227	4,083	6,396
1995	21	100	4,694	6,158	3,556	6,490
1996	216	196	5,182	5,087	2,630	5,932
1997	242	238	5,523	7,484	3,442	8,058
1998	105	200	3,755	6,670	3,132	6,738

See footnotes at end of table.

U.S. MARINE RECREATIONAL FISHERIES

43

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1989-1998

Year	Temperate Basses			Toadfishes		
	<u>Pounds</u> <u>harvested</u> (thousand)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)	<u>Pounds</u> <u>harvested</u> (thousand)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)
1989	1,195	927	2,328	56	193	2,842
1990	2,915	1,601	3,850	7	32	2,633
1991	4,542	2,494	5,396	7	134	2,867
1992	4,683	1,977	5,538	19	152	1,631
1993	6,783	2,895	7,322	17	39	2,638
1994	7,888	2,827	10,490	28	61	1,720
1995	12,082	2,222	12,129	1	29	1,603
1996	15,876	3,744	15,287	1	14	1,036
1997	17,597	4,300	20,104	0	33	1,110
1998	13,995	3,294	18,438	2	10	895
Year	Triggerfishes/Filefishes			Tunas And Mackerels		
	<u>Pounds</u> <u>harvested</u> (thousand)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)	<u>Pounds</u> <u>harvested</u> (thousand)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)
1989	1,832	1,109	447	41,444	7,689	2,063
1990	2,365	1,084	259	31,457	8,397	3,264
1991	2,428	1,000	427	33,097	10,784	2,949
1992	1,654	796	307	24,513	7,067	3,027
1993	1,547	767	232	31,259	8,604	5,487
1994	1,414	740	179	36,279	12,040	5,507
1995	1,257	703	194	37,142	9,234	5,720
1996	851	470	265	34,930	9,302	6,433
1997	1,076	506	227	40,880	11,432	6,574
1998	689	349	219	29,496	7,054	3,989
Year	Wrasses			California Scorpionfish (1)		
	<u>Pounds</u> <u>harvested</u> (thousand)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)	<u>Pounds</u> <u>harvested</u> (thousand)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)
1989	6,736	3,161	3,403	-	-	-
1990	5,424	2,837	3,740	-	-	-
1991	8,696	3,518	4,610	-	-	-
1992	8,237	3,088	3,313	-	-	-
1993	6,536	2,880	3,532	166	148	72
1994	4,148	1,760	2,484	258	242	126
1995	5,153	2,053	3,392	224	212	139
1996	3,620	1,317	1,797	339	342	234
1997	2,582	926	1,817	206	243	132
1998	1,706	557	2,023	185	160	66

See footnotes at end of table.

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2),
BY SPECIES GROUP, 1989-1998

Year	Croakers (1)			Greenlings (1)		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u>	<u>Harvested</u>	<u>Released</u>	<u>harvested</u>	<u>Harvested</u>	<u>Released</u>
	(thousand)	(thousands)	(thousands)	(thousand)	(thousands)	(thousands)
1993	582	1,216	1,146	1,814	497	175
1994	446	739	521	1,016	294	109
1995	695	1,132	674	962	252	144
1996	919	1,544	864	1,370	408	285
1997	557	774	711	1,062	299	244
1998	426	611	355	1,408	270	298

Year	Pacific Barracuda (1)			Rockfishes (1)		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u>	<u>Harvested</u>	<u>Released</u>	<u>harvested</u>	<u>Harvested</u>	<u>Released</u>
	(thousand)	(thousands)	(thousands)	(thousand)	(thousands)	(thousands)
1993	1,687	428	822	6,088	4,900	1,447
1994	2,015	526	1,239	4,809	3,798	698
1995	2,490	563	816	4,188	2,917	665
1996	1,011	234	350	4,810	3,741	806
1997	1,699	374	475	3,796	2,987	680
1998	2,057	450	752	5,592	4,135	734

Year	Sea Chubs (1)			Silversides (1)		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u>	<u>Harvested</u>	<u>Released</u>	<u>harvested</u>	<u>Harvested</u>	<u>Released</u>
	(thousand)	(thousands)	(thousands)	(thousand)	(thousands)	(thousands)
1993	87	129	60	439	1,078	152
1994	106	108	42	138	323	97
1995	225	217	31	317	800	171
1996	78	72	18	297	658	120
1997	66	58	12	169	492	243
1998	87	108	47	153	395	157

Year	Smelts (1)			Surfperches ¹		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u>	<u>Harvested</u>	<u>Released</u>	<u>harvested</u>	<u>Harvested</u>	<u>Released</u>
	(thousand)	(thousands)	(thousands)	(thousand)	(thousands)	(thousands)
1993	159	1,629	31	755	1,362	608
1994	91	1,208	0	443	820	363
1995	122	1,416	0	709	1,181	649
1996	474	4,351	4	949	1,466	687
1997	120	1,617	9	640	1,180	755
1998	357	4,825	9	1,006	1,436	489

(1) The 1989 Pacific data were estimated without weighting county populations. The MRFSS was not conducted on the Pacific Coast from 1990 to 1992.

U.S. MARINE RECREATIONAL FISHERIES

45

U.S. RECREATIONAL FINFISH HARVEST (A+B1) AND RELEASED (B2), BY STATE, 1997 and 1998

State	1997		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>Harvested</u> (thousands)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
Maine	1,516	1,471	1,793
New Hampshire	1,479	598	568
Massachusetts	9,865	4,094	8,090
Rhode Island	3,225	1,745	2,260
Connecticut	3,228	1,487	2,301
New York	12,476	4,147	6,554
New Jersey	19,921	12,243	18,348
Delaware	2,751	1,926	3,605
Maryland	8,238	6,084	15,274
Virginia	16,835	15,998	18,979
North Carolina	19,703	7,421	10,564
South Carolina	4,492	3,350	5,272
Georgia	1,339	1,016	336
Florida	69,413	69,304	71,661
Alabama	5,784	2,630	2,367
Mississippi	4,479	2,444	2,457
Louisiana	23,385	12,871	18,101
Washington	4,322	2,637	2,649
Oregon	3,332	1,516	513
California	18,346	10,602	10,903
Grand Total	234,129	163,584	202,595

State	1998		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>Harvested</u> (thousands)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
Maine	701	662	945
New Hampshire	577	392	504
Massachusetts	9,226	2,748	10,034
Rhode Island	3,550	1,481	2,000
Connecticut	3,353	1,479	3,227
New York	8,421	3,652	5,411
New Jersey	13,511	5,613	15,694
Delaware	2,443	1,611	3,901
Maryland	8,217	6,357	14,342
Virginia	13,902	11,910	15,130
North Carolina	14,972	6,998	9,981
South Carolina	3,287	2,434	4,267
Georgia	1,005	843	732
Florida	54,738	55,855	63,089
Alabama	4,790	3,404	2,183
Mississippi	2,533	1,747	1,886
Louisiana	17,488	9,453	13,833
Washington	5,121	5,220	1,844
Oregon	3,775	1,712	530
California	23,021	11,950	7,203
Grand Total	194,631	135,521	176,736

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL NUMBERS OF ANGLERS AND TRIPS BY STATES, 1997 AND 1998

State	1997			
	Out-of-State Anglers	In-State Anglers		Number of Angler Trips
		From Coastal Counties	From Non-Coastal Counties	
	----- Numbers in thousands -----			
Maine	130	173	20	854
New Hampshire	67	59	8	338
Massachusetts	330	412	96	4,138
Rhode Island	178	97	(1)	1,163
Connecticut	70	257	(1)	1,132
New York	50	453	17	4,258
New Jersey	384	468	21	5,470
Delaware	137	86	(1)	884
Maryland	263	426	29	2,912
Virginia	286	381	66	3,704
North Carolina	842	323	163	4,789
South Carolina	308	150	71	1,584
Georgia	16	46	48	568
Florida	2,149	2,300	(1)	24,034
Alabama	98	107	64	1,000
Mississippi	90	104	32	985
Louisiana	95	464	48	3,140
Washington	25	321	13	1,455
Oregon	53	180	14	593
California	199	1,203	83	5,138
Grand Total	5,770	8,010	793	68,139

State	1998			
	Out-of-State Anglers	In-State Anglers		Number of Angler Trips
		From Coastal Counties	From Non-Coastal Counties	
	----- Numbers in thousands -----			
Maine	114	94	10	669
New Hampshire	57	55	6	272
Massachusetts	226	265	50	3,422
Rhode Island	186	77	(1)	1,093
Connecticut	73	299	(1)	1,293
New York	42	342	4	3,409
New Jersey	353	260	22	4,257
Delaware	186	67	(1)	910
Maryland	304	375	20	2,807
Virginia	289	256	23	2,932
North Carolina	611	279	118	4,289
South Carolina	402	130	51	1,659
Georgia	18	117	10	558
Florida	2,384	2,263	(1)	21,314
Alabama	98	70	27	927
Mississippi	66	55	9	801
Louisiana	106	440	27	2,629
Washington	42	326	21	1,463
Oregon	51	168	13	649
California	198	1,098	65	4,905
Grand Total	5,806	7,036	476	60,258

(1) Less than 1,000 anglers.

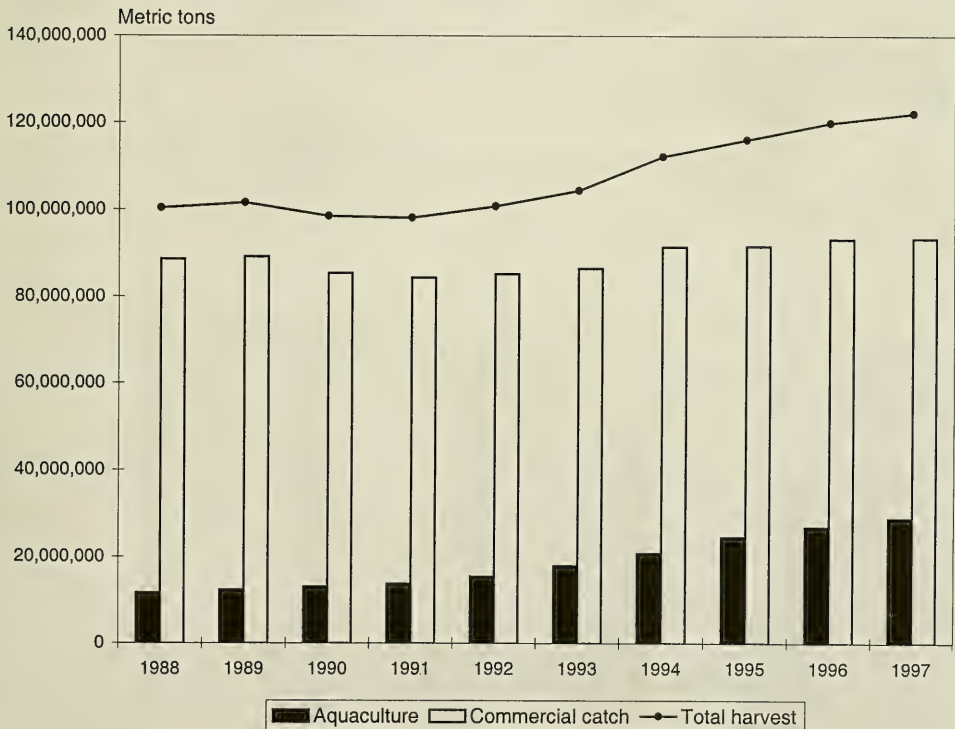
WORLD AQUACULTURE AND COMMERCIAL CATCHES, 1988-97

Year	World aquaculture			World commercial catch			Grand Total
	Inland	Marine	Total	Inland	Marine	Total	
	----- Metric tons ----- Live weight			----- Metric tons ----- Live weight			
1988	7,170,112	4,530,118	11,700,230	6,203,259	82,459,710	88,662,969	100,363,199
1989	7,653,595	4,678,589	12,332,184	6,232,676	83,022,499	89,255,175	101,587,359
1990	8,155,436	4,928,706	13,084,142	6,433,330	79,029,806	85,463,136	98,547,278
1991	8,394,514	5,336,867	13,731,381	6,204,019	78,192,191	84,396,210	98,127,591
1992	9,355,548	6,121,802	15,477,350	6,138,491	79,124,488	85,262,979	100,740,329
1993	10,559,393	7,328,865	17,888,258	6,527,341	79,940,673	86,468,014	104,356,272
1994	12,135,089	8,655,759	20,790,848	6,714,557	84,683,302	91,397,859	112,188,707
1995	14,047,774	10,436,358	24,484,132	7,255,131	84,302,371	91,557,502	116,041,634
1996	15,924,746	10,840,129	26,764,875	7,459,733	85,717,592	93,177,325	119,942,200
1997	17,618,773	11,189,641	28,808,414	7,739,212	85,589,940	93,329,152	122,137,566

Note: Data for marine mammals and aquatic plants are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO)

World Aquaculture and Commercial Catches



**WORLD AQUACULTURE AND COMMERCIAL CATCHES BY COUNTRY
OF FISH, CRUSTACEANS, AND MOLLUSKS, 1993-97**

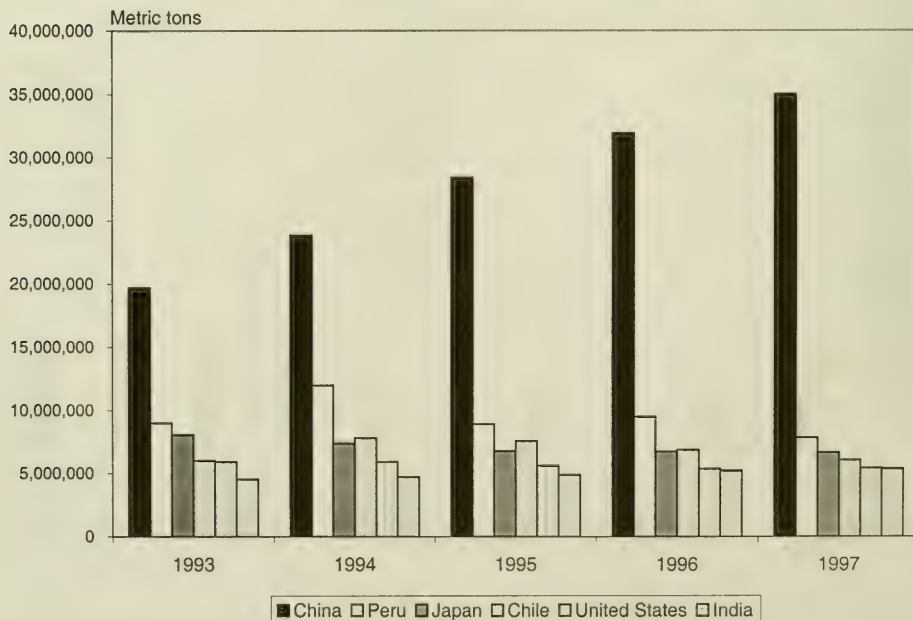
Country	1993	1994	1995	1996	1997
	----- Metric tons ----- Live-weight				
China	19,708,195	23,833,631	28,418,359	31,936,876	35,037,967
Peru	9,009,639	12,005,120	8,943,111	9,521,960	7,877,252
Japan	8,080,820	7,398,335	6,787,414	6,765,484	6,688,833
Chile	6,036,007	7,838,538	7,590,985	6,908,896	6,083,913
United States	5,940,634	5,926,130	5,637,977	5,394,814	5,448,385
India	4,545,717	4,737,765	4,905,921	5,257,546	5,378,004
Russian Federation	4,461,381	3,780,537	4,373,827	4,729,565	4,715,024
Indonesia	3,685,439	3,913,151	4,139,057	4,290,711	4,403,810
Thailand	3,385,003	3,522,056	3,572,772	3,514,830	3,488,104
Norway	2,588,261	2,570,220	2,802,714	2,960,106	3,222,970
South Korea	2,649,368	2,700,676	2,688,070	2,771,759	2,596,474
Iceland	1,718,498	1,560,184	1,616,033	2,063,855	2,209,607
Philippines	2,226,395	2,232,919	2,222,031	2,133,035	2,136,249
Denmark	1,657,520	1,916,227	2,043,763	1,722,941	1,865,760
Viet Nam	1,061,618	1,177,554	1,394,176	1,431,000	1,546,000
Mexico	1,131,000	1,223,242	1,355,049	1,495,423	1,528,520
Argentina	931,758	949,520	1,148,842	1,250,050	1,352,400
Bangladesh	1,047,170	1,090,610	1,172,868	1,264,435	1,342,730
Spain	1,221,009	1,336,458	1,391,142	1,332,220	1,341,311
Taiwan	1,410,887	1,248,895	1,288,428	1,229,886	1,295,578
All others	21,859,953	21,226,939	22,549,095	21,966,808	22,578,675
Total	104,356,272	112,188,707	116,041,634	119,942,200	122,137,566

Note: Data for 1993-1996 are revised. For the United States the weight of clam, oyster, scallop, and other mollusk includes the shell weight. This weight is not included in U.S. landings shown elsewhere.

Data for marine mammals and aquatic plants are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO)

Aquaculture and Commercial Catch by Leading Countries



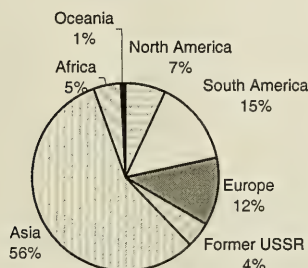
WORLD AQUACULTURE AND COMMERCIAL CATCHES BY CONTINENT OF FISH, CRUSTACEANS, AND MOLLUSKS, 1993-97

Continent	1993	1994	1995	1996	1997
----- Metric tons ----- <u>Live-weight</u>					
North America	8,802,803	8,791,411	8,523,101	8,423,618	8,612,654
South America	17,848,837	22,695,455	19,959,415	20,174,373	17,791,857
Europe	12,631,635	12,909,783	13,623,915	13,574,587	14,153,084
Former USSR	5,404,485	4,528,700	5,217,967	5,571,641	5,453,659
Asia	53,370,345	56,980,287	61,861,299	65,745,237	69,141,341
Africa	5,235,216	5,223,162	5,667,228	5,458,072	5,822,293
Oceania	888,340	895,114	1,041,996	908,819	1,081,176
Other	174,611	164,795	146,713	85,853	81,502
Total	104,356,272	112,188,707	116,041,634	119,942,200	122,137,566

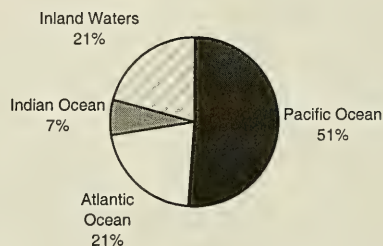
Note: Data for 1993-1996 are revised. Data for marine mammals and aquatic plants are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO)

1997 Aquaculture and Catches by Continent



1997 Aquaculture and Catches by Area



WORLD AQUACULTURE AND COMMERCIAL CATCHES BY MAJOR AREA OF FISH, CRUSTACEANS, AND MOLLUSKS, 1993-97

Area	1993	1994	1995	1996	1997
----- Metric tons ----- <u>Live-weight</u>					
Marine Areas:					
Pacific Ocean	55,690,886	61,906,258	61,916,808	63,561,996	62,517,947
Atlantic Ocean	23,687,033	23,674,586	24,776,732	24,763,816	25,903,338
Indian Ocean	7,891,619	7,758,217	8,045,189	8,231,909	8,358,296
Total	87,269,538	93,339,061	94,738,729	96,557,721	96,779,581
Inland waters:					
North America	540,231	523,857	531,174	554,414	598,325
South America	374,903	403,252	442,968	445,167	484,189
Europe	498,342	509,399	528,859	513,225	518,906
Former USSR	536,387	471,328	416,846	413,918	400,739
Asia	13,210,700	15,077,097	17,321,437	19,430,459	21,267,314
Africa	1,902,919	1,843,305	2,038,993	2,004,993	2,064,921
Oceania	23,252	21,408	22,628	22,303	23,591
Total	17,086,734	18,849,646	21,302,905	23,384,479	25,357,985
Grand total	104,356,272	112,188,707	116,041,634	119,942,200	122,137,566

Note: Data for 1993-1996 are revised. Data for marine mammals and aquatic plants are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO)

**WORLD AQUACULTURE AND COMMERCIAL CATCHES BY SPECIES
OF FISH, CRUSTACEANS, AND MOLLUSKS, 1993-97**

Species group	1993	1994	1995	1996	1997
	----- Metric tons ----- Live weight				
Herrings, sardines, anchovies	22,009,188	25,909,716	22,020,462	22,307,567	21,581,548
Carp, barbel, cyprinids	8,306,260	9,688,176	11,309,561	12,724,064	13,975,121
Jacks, mullets, sauries	10,135,665	10,065,824	11,019,839	11,554,718	10,915,094
Cods, hakes, haddock	9,926,851	9,726,772	10,723,094	10,740,032	10,234,871
Redfish, basses, congers	5,814,770	6,435,396	7,070,888	6,967,403	7,495,921
Mackerel, snoeks, cutlassfishes	4,016,794	4,531,937	4,715,607	5,151,347	5,262,654
Tunas, bonitos, billfishes	4,574,139	4,652,460	4,731,301	4,636,526	4,853,454
Salmons, trouts, smelts	1,706,930	1,807,711	2,095,863	2,104,856	2,145,694
Tilapia	1,081,383	1,125,540	1,273,762	1,366,788	1,529,190
Flatfish	1,108,737	996,560	933,160	953,266	1,031,949
Sharks, rays, chimaeras	741,321	756,892	752,766	804,002	789,862
Shads	656,146	634,389	685,224	717,299	739,157
River eels	202,917	206,174	201,884	250,228	251,179
Sturgeons, paddlefish	9,081	8,124	6,794	6,128	6,721
Other fishes	16,262,101	15,853,551	16,446,115	17,295,972	17,555,218
Shrimp	2,931,301	3,136,785	3,252,936	3,397,758	3,477,141
Crabs	1,012,100	1,209,815	1,236,475	1,316,198	1,348,847
Lobsters	211,285	224,331	232,493	223,551	249,866
Krill	88,777	83,962	118,714	101,708	84,608
Other crustaceans	1,173,512	1,316,537	1,514,173	1,699,415	1,979,712
Squids, cuttlefishes, octopus	2,707,136	2,772,744	2,878,146	3,058,004	3,320,730
Oysters	2,031,843	2,814,362	3,243,485	3,223,903	3,279,459
Clams, cockles, arkshells	2,450,791	2,612,478	2,717,704	2,684,037	2,780,364
Scallops	1,465,315	1,642,674	1,654,476	1,757,942	1,746,293
Mussels	1,312,134	1,264,257	1,363,938	1,318,701	1,363,197
Abalones, winkles, conchs	93,810	102,488	104,660	113,355	109,670
Other mollusks	1,901,295	2,104,904	3,162,403	2,920,688	3,298,975
Sea urchins, other echinoderms	105,251	116,795	127,134	117,911	109,174
Miscellaneous	319,439	387,353	448,577	428,833	621,897
Total	104,356,272	112,188,707	116,041,634	119,942,200	122,137,566

Note: Data for 1993-1996 are revised. Data for marine mammals and aquatic plants are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO).

DISPOSITION OF WORLD AQUACULTURE AND COMMERCIAL CATCHES, 1993-97

Item	1993	1994	1995	1996	1997
	----- Percent of Total -----				
Marketed fresh	25.3	25.8	29.5	32.2	35.1
Frozen	24.8	23.6	23.3	22.8	22.2
Canned	12.2	11.1	10.9	10.3	9.2
Cured	9.8	9.8	10.0	9.6	10.0
Reduced to meal and oil (1)	26.1	27.9	24.7	23.5	22.0
Miscellaneous purposes	2	2	2	2	2
Total	100	100	100	100	100

Note: Data for 1993-1996 are revised.

(1) Only whole fish destined for the manufacture of oils and meals are included. Raw material for reduction derived from fish primarily destined for marketing fresh, frozen, canned, cured, and miscellaneous purposes is excluded; such waste quantities are included under the other disposition channels.

Note: Data for marine mammals and aquatic plants are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO)

**WORLD IMPORTS AND EXPORTS OF SEVEN FISHERY COMMODITY GROUPS,
BY LEADING COUNTRIES, 1993-97**

Country	1993	1994	1995	1996	1997
----- Thousand U.S. dollars -----					
IMPORTS:					
Japan	14,187,149	16,140,465	17,853,481	17,023,945	15,539,507
United States	6,290,233	7,043,431	7,141,428	7,080,411	8,138,840
Spain	2,629,799	2,638,737	3,105,684	3,134,893	3,085,424
France	2,556,151	2,796,719	3,221,298	3,194,133	3,062,051
Italy	2,131,181	2,257,462	2,281,316	2,590,985	2,571,868
Germany	1,884,301	2,316,449	2,478,817	2,542,957	2,362,914
United Kingdom	1,628,852	1,880,350	1,910,091	2,065,025	2,141,619
Hong Kong	1,376,856	1,647,106	1,831,511	1,928,143	2,096,894
Denmark	1,094,253	1,415,239	1,573,732	1,618,669	1,521,062
China	575,929	855,706	941,293	1,184,170	1,183,283
Canada	821,404	913,404	1,034,070	1,158,864	1,129,210
Netherlands	791,608	1,017,635	1,191,857	1,141,647	1,107,443
South Korea	537,346	718,451	824,817	1,054,095	1,017,949
Belgium	730,459	920,918	1,035,818	966,333	979,272
Portugal	627,713	669,888	763,245	782,858	749,602
Taiwan	544,243	560,799	589,723	612,945	659,817
Singapore	566,502	619,595	659,681	641,782	626,876
Sweden	371,756	448,661	546,076	587,169	596,486
Norway	310,352	322,087	490,383	535,642	562,133
Other Countries	4,910,471	5,939,203	6,588,606	7,926,838	7,105,736
Total	44,566,558	51,122,305	56,062,927	57,771,504	56,237,986
EXPORTS:					
Norway	2,302,346	2,718,132	3,122,662	3,415,696	3,399,229
China	1,542,429	2,320,125	2,835,021	2,856,986	2,937,281
United States	3,179,474	3,229,585	3,383,589	3,147,858	2,850,311
Denmark	2,150,665	2,359,034	2,459,629	2,698,976	2,648,911
Thailand	3,404,268	4,190,036	4,449,457	4,117,865	2,349,694
Canada	2,055,438	2,182,078	2,314,413	2,291,261	2,270,725
Chile	1,124,679	1,303,974	1,704,260	1,697,258	1,781,805
Taiwan	2,369,422	1,804,050	1,809,166	1,762,132	1,781,541
Indonesia	1,419,492	1,583,416	1,666,752	1,678,222	1,620,628
Spain	813,750	1,021,015	1,190,676	1,461,486	1,471,306
Netherlands	1,296,340	1,435,824	1,447,239	1,470,046	1,425,552
South Korea	1,335,238	1,411,052	1,564,878	1,509,458	1,376,465
Iceland	1,137,638	1,264,615	1,342,552	1,425,837	1,360,285
Russian Federation	1,471,446	1,720,459	1,635,145	1,686,162	1,355,995
Peru	685,004	979,502	869,727	1,120,391	1,342,182
United Kingdom	1,036,674	1,180,158	1,195,477	1,307,859	1,264,447
India	835,980	1,125,440	1,040,671	1,115,963	1,236,311
Ecuador	573,775	723,691	902,085	924,596	1,178,912
France	857,752	909,734	993,364	1,003,460	1,097,534
Other Countries	11,808,140	13,825,440	15,853,191	16,144,809	16,854,036
Total	41,399,950	47,287,360	51,779,954	52,836,321	51,603,150

Note: Data for 1993-1996 are revised. Data on imports and exports cover the international trade of 176 countries or areas. The total value of exports is consistently less than the value of imports, probably because charges for insurance, freight, and similar expenses were included in the import value, but not in the export value. The seven fishery commodity groups covered by this table are: 1. Fish, fresh, chilled or frozen; 2. Fish, dried, salted, or smoked; 3. Crustaceans and mollusks, fresh, dried, salted, etc.; 4. Fish products and preparations, whether or not in airtight containers; 5. Crustacean and mollusk products are preparations, whether or not in airtight containers; 6. Oils and fats, crude or refined, of aquatic animal origin; and 7. Meals, solubles, and similar animal foodstuffs of aquatic animal origin.

FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 1998 the U.S. production of raw (uncooked) fish fillets and steaks, including blocks, was 438.7 million pounds--29.0 million pounds more than the 409.7 million pounds in 1997. These fillets and steaks were valued at \$1.0 billion. Alaska pollock fillets and blocks led all species with 161.4 million pounds--37 percent of the total. Production of groundfish fillets and steaks (see Glossary Section-Groundfish) was 269.0 million pounds.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 243.4 million pounds valued at \$287.9 million compared with the 1997 production of 264.7 million pounds valued at \$349.6 million.

The total production of fish sticks amounted to 67.2 million pounds valued at \$61.7 million. The total production of fish portions amounted to 176.1 million pounds valued at \$226.2 million.

BREADED SHRIMP. The production of breaded shrimp in 1998 was 109.5 million pounds valued at \$333.2 million, compared with the 1997 production of 117.5 million pounds valued at \$334.9 million.

FROZEN FISHERY TRADE. In 1998, stocks of frozen fishery products in cold storage were at a low of 364.2 million pounds on May 31 and a high of 437.2 million pounds on November 30. Cold storage holdings of shrimp products were at a high of 57.5 million pounds on October 31 and a low of 39.7 million pounds on March 31. Holdings of saltwater fillets and steaks reached a high of 94.2 million pounds on November 30 and were at a low of 64.3 million pounds on February 28. Holdings of blocks and slabs were at a high of 66.7 million pounds on December 31 and a low of 28.6 million pounds on March 31. Surimi reached a high of 45.1 million pounds on June 30 and was at a low of 19.9 million pounds on January 31. Analog Products reached a high of 7.3 million pounds on September 30 and a low of 4.1 million pounds on December 31.

CANNED PRODUCTS

CANNED FISHERY PRODUCTS. The pack of canned fishery products in the 50 states, American Samoa, and Puerto Rico was 1.5 billion pounds valued at \$1.8 billion--a decrease of 34.1 million pounds, but an increase of \$172.5 million compared with the 1997 pack. The 1998 pack included 986.6 million pounds valued at \$1.4 billion for human consumption and 544.3 million pounds valued at \$349.8 million for bait and animal food.

CANNED SALMON. The 1998 U.S. pack of salmon was 162.5 million pounds valued at \$273.5 million, compared with 162.1 million pounds valued at \$252.8 million packed in 1997.

CANNED SARDINES. The pack of Maine sardines (small herring) was 11.8 million pounds valued at \$19.5 million, a decrease of 4.1 million pounds and \$9.5 million compared with 1997. There were 3.7 million pounds of herring valued at \$6.6 million packed in 1998 -- a decrease of 2.2 million pounds and \$4.6 million than the 1997 pack.

CANNED TUNA. The U.S. pack of tuna was 680.9 million pounds valued at \$983.0 million--an increase of 53.8 million pounds in quantity and \$64.3 million in value compared with the 1997 pack. The pack of albacore tuna was 196.8 million pounds comprising 30 percent of the tuna pack in 1998. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 484.1 million pounds.

CANNED CLAMS. The 1998 U.S. pack of clams (whole, minced, chowder, juice, and specialties) was 113.4 million pounds valued at \$104.9 million. The pack of whole and minced clams was 36.6 million pounds and accounted for 32 percent of the total clam pack. Clam chowder and clam juice was 67.1 million pounds and made up the majority of the pack.

OTHER CANNED ITEMS. The pack of pet food was 544.3 million pounds valued at \$349.8 million--a decrease of 68.0 million pounds compared with the 1997 pack.

INDUSTRIAL FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS. The value of the domestic production of industrial fishery products was \$229.4 million--a decrease of \$118.0 million compared with the 1997 value of \$347.4 million.

FISH MEAL. The domestic production of fish and shellfish meal was 592.6 million pounds valued at \$112.9 million--a decrease of 132.1 million pounds, and \$61.1 million compared with 1997. Fish meal production was 573.9 million pounds valued at \$111.7 million--a decrease of 132.7 million pounds and \$61.0 million from the 1997 production. Shellfish meal production was 18.7 million pounds--an increase of 546,000 pounds from the 1997 level.

FISH OILS. The domestic production of fish oils was 223.1 million pounds valued at \$55.7 million--a decrease of 60.2 million pounds, but an increase of \$413,000 in value compared with 1997 production.

OTHER INDUSTRIAL PRODUCTS. Oyster shell products, together with agar-agar, animal feeds, crab and clam shells processed for food serving, fish pellets, Irish moss extracts, kelp products, dry and liquid fertilizers, pearl essence, and mussel shell buttons were valued at \$60.8 million, compared with \$118.1 million in 1997--a decrease of \$57.3 million.

VALUE OF PROCESSED FISHERY PRODUCTS, 1997 AND 1998 (Processed from domestic catch and imported products)

Item	1997 (1)		1998	
	<u>Thousand dollars</u>	<u>Percent of total</u>	<u>Thousand dollars</u>	<u>Percent of total</u>
Edible:				
Fresh and frozen	6,016,739	74	5,224,437	71
Canned	1,361,437	17	1,415,965	19
Cured	142,843	2	132,257	2
Total edible	7,521,019	93	6,772,659	92
Industrial:				
Bait and animal food (canned)	231,756	3	349,765	5
Meal and oil	229,222	3	168,580	2
Other	118,128	1	60,800	1
Total industrial	579,106	7	579,145	8
Grand total	8,100,125	100	7,351,804	100

(1) Revised. May not add due to rounding.

Note:--Value is based on selling price at the plant.

U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1989-98

Year	Fish sticks			Fish portions			Breaded shrimp		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
1989	89,112	40,421	116,440	279,864	126,945	400,351	120,927	54,852	404,535
1990	65,209	29,579	74,866	242,776	110,122	352,589	110,760	50,240	353,265
1991	63,286	28,706	77,877	204,697	92,850	313,400	116,335	52,769	335,880
1992	58,295	26,442	56,020	194,307	88,137	296,214	122,266	55,459	350,497
1993	67,959	30,826	67,975	206,165	93,516	313,195	111,489	50,571	316,722
1994	58,789	26,667	51,429	196,289	89,036	268,353	113,461	51,466	304,931
1995	74,066	33,596	73,478	251,217	113,951	356,518	100,522	45,596	299,355
1996	65,244	29,594	55,802	213,962	97,053	306,501	108,486	49,209	341,770
1997	69,167	31,374	64,298	195,554	88,703	285,348	117,471	53,284	334,939
1998	67,242	30,501	61,707	176,114	79,885	226,153	109,484	49,662	333,250

#

PROCESSED FISHERY PRODUCTS

55

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1997 AND 1998

Species	Pounds per case	1997			1998		
		Standard cases	Thousand pound	Thousand dollars	Standard cases	Thousand pound	Thousand dollars
For human consumption:							
Fish:							
Herring	23.4	250,855	5,870	11,172	158,291	3,704	6,612
Salmon:							
Chinook	44.25	678	30	174	362	16	103
Chum	44.25	175,864	7,782	7,039	212,271	9,393	8,711
Pink	44.25	2,604,678	115,257	140,999	2,672,136	118,242	153,008
Coho	44.25	59,367	2,627	6,809	36,000	1,593	3,288
Sockeye	44.25	690,169	30,540	97,790	667,887	29,554	108,420
Total salmon		3,530,757	162,106	252,811	3,588,655	162,502	273,530
Specialties	48	8,750	420	4,105	13,229	635	4,770
Sardines, Maine	23.4	682,735	15,976	29,027	506,068	11,842	19,488
Tuna: (2)							
Albacore:							
Solid	18	8,647,722	155,659	336,415	9,065,944	163,187	330,348
Chunk	18	1,646,333	29,634	58,177	1,867,000	33,606	60,604
Total albacore		10,294,056	185,293	394,592	10,932,944	196,793	390,952
Lightmeat:							
Solid	18	408,833	7,359	11,233	502,444	9,044	13,952
Chunk	18	24,132,222	434,380	512,905	26,389,778	475,016	578,108
Total lightmeat		24,541,056	441,739	524,138	26,892,222	484,060	592,060
Total tuna		34,835,111	627,032	918,730	37,825,167	680,853	983,012
Specialties	48	438	21	210	542	26	179
Other	48	373,896	17,947	18,694	305,813	14,679	17,302
Total fish	--	39,682,541	817,632	1,234,749	42,397,764	870,537	1,304,893
Shellfish:							
Clam and clam products: (3)							
Whole and minced	15	2,911,800	43,677	62,698	2,442,533	36,638	54,205
Chowder and juice	30	2,330,433	69,913	43,175	2,235,733	67,072	41,420
Specialties	48	235,125	11,286	8,703	201,250	9,660	9,275
Total clams	--	5,477,358	124,876	114,576	4,879,517	113,370	104,900
Crabs, natural	20	4,256	83	446	4,000	78	437
Lobster meat and specialties	48	7,417	356	439	9,188	441	525
Oyster, specialties	48	604	29	111	667	32	81
Shrimp, natural (4)	6.75	173,037	1,168	4,557	28,741	194	1,300
Other	48	179,396	8,611	6,559	41,375	1,986	3,829
Total shellfish	--	5,842,068	135,123	126,688	4,963,487	116,101	111,072
Total for human consumption	--	45,524,610	952,755	1,361,437	47,361,251	986,638	1,415,965
For bait and animal food	48	12,756,667	612,320	231,756	11,340,125	544,326	349,765
Grand total	--	58,281,276	1,565,075	1,593,193	58,701,376	1,530,964	1,765,730

(1) Revised.

(2) Flakes included with chunk.

(3) "Cut out" or "drained" weight of can contents are given for whole or minced clams, and net contents for other clam products.

(4) Drained weight.

#

PROCESSED FISHERY PRODUCTS

57

INDUSTRIAL PRODUCTS

PRODUCTION OF MEAL AND OIL, 1997 AND 1998

Product	1997			1998		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Dried scrap and meal:						
Fish	706,544	320,486	172,673	573,882	260,311	111,710
Shellfish	18,124	8,221	1,263	18,670	8,469	1,171
Total, scrap and meal	724,668	328,707	173,936	592,552	268,780	112,881
Body oil, total	283,379	128,540	55,287	223,149	101,220	55,700

Note:--To convert pounds of oil to gallons divide by 7.75. The above data includes production in American Samoa and Puerto Rico.

PRODUCTION OF INDUSTRIAL PRODUCTS, 1989-98

Year	Scrap and meal		Marine animal oil		Meal, and oil	Other industrial products	Grand total
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	----- Thousand dollars -----		
1989	618,382	280,496	225,478	102,276	156,321	49,756	206,077
1990	577,498	261,951	281,949	127,891	163,796	42,759	206,555
1991	612,716	277,926	267,345	121,267	170,495	37,707	208,202
1992	644,512	292,349	184,725	83,791	157,693	45,310	203,003
1993	750,744	340,535	293,452	133,109	182,170	43,689	225,859
1994	807,833	366,431	291,882	132,397	186,222	61,992	248,214
1995	667,240	302,658	241,941	109,744	172,279	74,264	246,543
1996	643,124	291,719	248,399	112,673	187,968	85,583	273,551
1997	724,668	328,707	283,379	128,540	229,222	118,128	347,350
1998	592,552	268,780	223,149	101,220	168,580	60,800	229,380

Note:--Does not include the value of imported items that may be further processed.

U.S. COLD STORAGE HOLDINGS

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1998

Species	January	February	March	April	May	June
Fish	----- Thousand pounds -----					
Saltwater:						
Blocks and slabs:						
Cod	10,036	5,871	4,134	3,609	5,077	3,655
Flounder and sole	1,747	919	633	505	665	2,023
Haddock	1,337	515	461	384	277	776
Ocean perch	161	132	153	213	446	191
Pollock:						
Alaska (walleye)	21,295	19,070	11,006	12,087	14,979	12,168
Atlantic or other	6,010	8,141	6,539	8,777	8,558	10,876
Whiting:						
Silver (Atl) hake	600	646	495	420	615	496
Pacific hake	78	37	223	-	197	42
Minced	8,475	8,384	3,646	3,845	12,232	14,594
Unclassified (3)	2,448	2,526	1,302	1,592	2,225	3,111
Total, blocks and slabs	52,187	46,241	28,592	31,432	45,271	47,932
Fillets and steaks:						
Cod	21,215	20,518	21,628	23,914	21,412	18,830
Flounder and sole	4,264	4,423	6,080	11,738	12,037	12,371
Haddock	3,044	2,341	2,025	860	1,485	1,796
Halibut	1,581	1,407	1,308	1,307	1,340	1,352
Ocean perch	1,643	1,249	1,318	1,314	1,711	2,339
Pollock:						
Alaska (walleye)	7,515	7,820	8,176	7,839	6,105	5,899
Atlantic or other	2,916	1,388	1,528	1,709	1,759	1,751
Rockfish	311	102	194	88	139	257
Salmon	9,314	4,336	4,592	3,894	3,782	3,795
Whiting:						
Silver (Atl) hake	1,949	1,082	1,048	999	1,072	2,824
Pacific hake	2,228	1,606	1,160	817	1,180	5,215
Unclassified	23,020	18,076	22,062	19,474	13,288	11,680
Total, fillets and steaks	79,000	64,348	71,119	73,953	65,310	68,109
Round, dressed, etc.:						
Halibut (exc. California)	11,267	9,162	6,850	6,548	5,920	6,324
Sablefish	1,050	796	574	375	535	1,147
Salmon:						
Chinook or king	2,848	2,434	1,329	1,527	1,102	1,014
Silver or coho	3,915	3,477	2,993	2,560	2,096	1,492
Chum or fall	22,657	19,361	15,982	12,575	8,919	6,539
Pink	5,906	4,104	2,553	1,881	1,364	1,113
Sockeye	3,488	2,545	1,435	479	280	875
Unclassified	3,348	2,971	7,432	2,061	1,533	1,899
Total, salmon	42,162	34,892	31,724	21,083	15,294	12,932
Whiting:						
Silver (Atl) hake	231	231	24	213	1,079	191
Pacific hake	463	234	150	138	60	6
Unclassified (exc bait)	62,643	31,255	24,844	30,347	25,309	26,687
Total, round, dressed, etc.	117,816	76,570	64,166	58,704	48,197	47,287

See footnotes at end of table.

(Continued)

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1998 - Continued

Species	July	August	September	October	November	December
Fish	----- Thousand pounds -----					
Saltwater:						
Blocks and slabs:						
Cod	4,541	5,865	4,867	5,626	5,882	6,773
Flounder and sole	1,005	1,697	2,501	3,798	3,611	3,269
Haddock	699	548	434	803	878	864
Ocean perch	221	154	347	731	861	976
Pollock:						
Alaska (walleye)	13,517	12,377	16,791	14,857	17,728	23,866
Atlantic or other	13,804	11,121	4,417	5,241	5,923	11,380
Whiting:						
Silver (Atlantic) hake	533	1,662	461	528	679	729
Pacific hake	385	122	169	257	380	134
Minced	14,539	12,636	11,272	12,214	12,997	16,084
Unclassified (3).	4,000	8,699	2,662	1,362	2,267	2,619
Total, blocks and slabs	53,244	54,881	43,921	45,417	51,206	66,694
Fillets and steaks:						
Cod	19,147	16,190	14,831	13,599	13,626	13,291
Flounder and sole	12,400	12,406	13,138	6,544	6,294	6,270
Haddock	1,568	604	1,209	1,010	1,107	1,469
Halibut	1,171	1,459	1,466	1,599	1,507	1,472
Ocean perch	4,297	4,393	4,585	4,255	4,131	4,656
Pollock:						
Alaska (walleye)	5,824	4,284	6,051	15,179	13,786	12,389
Atlantic or other	1,623	2,313	2,436	2,539	2,964	4,144
Rockfish	300	294	218	186	297	183
Salmon	3,949	3,325	3,256	3,633	3,142	2,810
Whiting:						
Silver (Atlantic) hake	3,881	4,561	4,476	3,955	30,447	4,125
Pacific hake	3,002	3,649	3,882	3,649	3,460	5,434
Unclassified	12,138	12,053	12,154	13,564	13,466	13,777
Total, fillets and steaks	69,300	65,531	67,702	69,712	94,227	70,020
Round, dressed, etc.:						
Halibut (exc. California)	7,949	9,634	10,608	9,354	8,890	6,935
Sablefish	1,022	1,125	1,262	1,274	1,353	1,097
Salmon:						
Chinook or king	2,612	2,531	2,849	2,479	2,121	1,803
Silver or coho	2,196	4,491	6,565	7,309	6,092	5,272
Chum or fall	17,609	36,764	45,742	46,740	45,037	36,691
Pink	1,219	8,716	11,431	10,484	9,809	9,274
Sockeye	908	2,111	2,145	1,474	1,135	793
Unclassified	1,717	2,695	2,808	2,736	2,548	2,790
Total, salmon	26,261	57,308	71,540	71,222	66,742	56,623
Whiting:						
Silver (Atlantic) hake	273	164	104	94	130	2,618
Pacific hake	16	1,939	1,844	1,781	1,707	1,677
Unclassified (exc bait)	25,294	30,117	33,998	32,878	32,920	31,321
Total, round, dressed, etc.	60,815	100,287	119,356	116,603	111,742	100,271

See footnotes at end of table.

(Continued)

U.S. COLD STORAGE HOLDINGS

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1998 - Continued

Species	January	February	March	April	May	June
<u>Fish</u>	----- Thousand pounds -----					
Fish sticks and portions (2):	32,210	27,293	26,333	27,465	29,146	24,065
Analog products	4,629	4,887	4,255	4,567	4,443	4,522
Surimi: Pollock	19,448	24,811	33,267	31,184	29,536	43,351
Other	484	1,279	1,408	2,016	1,632	1,788
Total, saltwater	305,774	245,429	229,140	229,321	223,535	237,054
Freshwater:						
Fillets and steaks	249	230	89	147	140	140
Catfish	12,723	9,620	10,106	11,075	10,588	10,144
Rainbow trout	1,364	1,293	1,172	1,084	962	918
Unclassified (exc bait)	203	161	178	174	215	207
Total, freshwater	14,539	11,304	11,545	12,480	11,905	11,409
Bait & animal food	11,079	13,357	15,084	9,898	8,498	7,230
<u>Shellfish</u>						
Clams and clam meats	2,883	2,500	2,558	2,630	2,796	3,294
Crabs:						
Dungeness	2,772	2,595	2,043	1,894	1,875	1,343
King:						
Meat	76	70	142	158	160	143
Sections	9,478	10,508	10,968	10,382	9,355	10,295
Snow:						
Meat	894	948	1,127	1,296	1,444	893
Sections	3,443	13,860	24,552	38,754	31,861	32,244
Unclassified	1,991	8,469	14,406	15,899	14,327	11,139
Total, crab	18,654	36,450	53,238	68,383	59,022	56,057
Lobsters:						
Spiny (tails)	4,707	4,049	3,640	2,691	2,884	2,646
Unclassified (whole & meat)	1,779	2,542	1,247	988	933	740
Oyster meats	550	390	476	703	702	627
Scallop meats	3,385	3,363	2,651	2,891	3,279	3,522
Shrimp:						
Raw, headless	10,386	8,333	4,898	4,547	3,632	3,516
Breaded	6,660	6,520	6,298	7,441	6,152	6,779
Peeled	18,369	17,503	15,862	14,946	17,462	19,013
Unclassified	13,539	13,663	12,667	12,958	14,571	15,294
Total, shrimp	48,954	46,019	39,725	39,892	41,817	44,602
Squid	5,285	3,007	4,358	2,260	2,223	2,397
Unclassified shellfish	8,948	8,931	5,940	5,823	5,063	5,292
Total, shellfish	95,145	107,251	113,833	126,261	118,719	119,177
Total, fish and shellfish	426,537	377,341	369,602	377,960	362,657	374,870
Cured fish (all categories)	446	483	1,342	1,834	1,551	1,535
Grand total	426,983	377,824	370,944	379,794	364,208	376,405

See footnotes at end of table.

(Continued)

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1998 - Continued

Species	July	August	September	October	November	December
<u>Fish</u>	Thousand pounds					
Fish sticks and portions (2):	28,074	23,580	24,484	25,227	27,176	28,231
Analog products	4,130	4,443	7,272	5,567	5,363	4,145
Surimi: Pollock	31,652	24,883	24,339	29,846	28,983	21,599
Other	4,923	2,227	1,618	1,358	1,072	2,095
Total, saltwater	252,138	275,832	288,692	293,730	319,769	293,055
<u>Freshwater</u>						
Fillets and steaks:	237	136	145	139	208	174
Catfish	10,585	10,149	10,185	10,962	10,907	11,452
Rainbow trout	1,043	790	779	690	819	760
Unclassified (exc bait)	153	156	80	87	93	139
Total, freshwater	12,018	11,231	11,189	11,878	12,027	12,525
Bait & animal food	6,722	6,973	7,441	6,647	6,883	6,249
<u>Shellfish</u>						
Clams and clam meats	3,033	2,766	3,157	3,037	2,998	3,291
Crabs:						
Dungeness	1,678	1,290	1,179	1,456	1,173	1,789
King:						
Meat	180	172	437	135	157	165
Sections	9,257	7,360	5,893	6,246	8,220	8,725
Snow:						
Meat	1,251	872	1,160	1,543	1,454	1,442
Sections	27,695	21,358	18,649	13,321	8,767	6,962
Unclassified	10,534	4,678	7,017	5,364	4,986	3,481
Total, crab	50,595	35,730	34,335	28,065	24,757	22,564
Lobsters:						
Spiny (tails)	2,476	2,430	2,425	2,333	2,844	3,267
Unclassified (whole & meat)	1,035	761	681	700	800	1,113
Oyster meats	592	461	428	457	231	290
Scallop meats	3,028	2,389	2,253	2,491	2,563	3,474
Shrimp:						
Raw, headless	3,471	5,501	6,794	7,341	7,989	8,764
Breaded	8,392	6,856	7,202	7,039	7,317	6,954
Peeled	20,527	19,616	22,916	24,332	21,237	20,493
Unclassified	15,812	16,438	15,545	18,769	18,467	18,548
Total, shrimp	48,202	48,411	52,457	57,481	55,010	54,759
Squid	3,518	2,072	1,517	1,682	1,561	1,711
Unclassified shellfish	4,838	4,769	5,858	5,114	6,198	5,587
Total, shellfish	117,317	99,789	103,111	101,360	96,962	96,056
Total, fish and shellfish	388,195	393,825	410,433	413,615	435,641	407,885
Cured fish (all categories)	1,752	2,051	2,582	1,861	1,557	1,110
Grand total	389,947	395,876	413,015	415,476	437,198	408,995

(1) Unclassified may also include blocks and slabs made from species listed separately.

(2) Fish sticks and portions include all species that are either cook or uncooked.

NOTE:--Data includes imported fishery products. Data for these tables were collected from public and private warehouses where fishery products are normally stored for 30 days or more.

IMPORTS. U.S. imports of edible fishery products in 1998 were valued at a record \$8.2 billion, \$418.9 million more than in 1997. The quantity of edible imports was 3.6 billion pounds, 308.2 million pounds more than the quantity imported in 1997.

Edible imports consisted of 3.1 billion pounds of fresh and frozen products valued at \$7.4 billion, 428.2 million pounds of canned products valued at \$587.6 million, 72.2 million pounds of cured products valued at \$140.6 million, 4.4 million pounds of caviar and roe products valued at \$33.2 million, and 23.1 million pounds of other products valued at \$55.9 million.

The quantity of shrimp imported in 1998 was 695.4 million pounds, 47.1 million pounds more than the quantity imported in 1997. Valued at \$3.1 billion, shrimp imports accounted for 38 percent of the value of total edible imports. Imports of fresh and frozen tuna were 571.0 million pounds, 132.5 million pounds more than the 438.5 million pounds imported in 1997. Imports of canned tuna were 240.4 million pounds, 28.2 million pounds more than in 1997. Imports of fresh and frozen fillets and steaks amounted to 578.6 million pounds, an increase of 63.8 million pounds from 1997. Regular and minced block imports were 232.8 million pounds, a decrease of 1.1 million pounds from 1997.

Imports of nonedible fishery products were valued at \$7.4 billion -- an increase of \$685.4 million compared

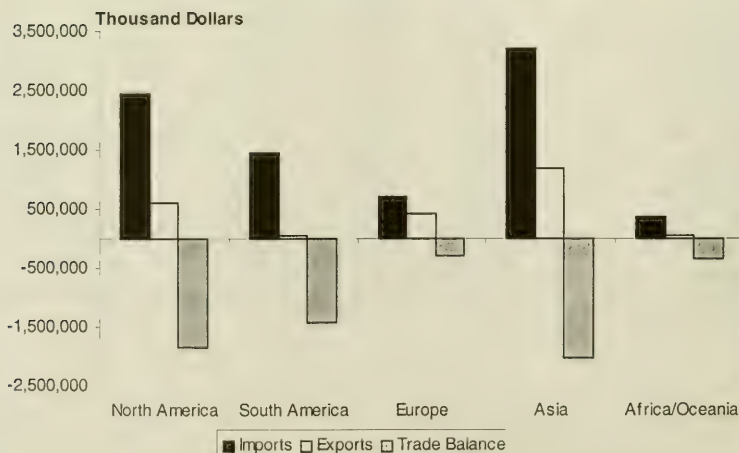
with 1997. The total value of edible and nonedible products was \$15.6 billion in 1998, \$1.1 billion more than in 1998 when \$14.5 billion of fishery products were imported.

EXPORTS. U.S. exports of edible fishery products were 1.7 billion pounds valued at \$2.3 billion, a decrease of 329.9 million pounds and \$445.1 million when compared with 1997. Fresh and frozen items were 1.4 billion pounds valued at \$1.8 billion, a decrease of 331.6 million pounds, and \$346.0 million compared with 1997. In terms of individual items, fresh and frozen exports consisted principally of 153.4 million pounds of salmon valued at \$255.1 million, 255.3 million pounds of surimi valued at \$284.4 million and 43.0 million pounds of lobsters valued at \$187.8 million.

Canned items were 144.2 million pounds valued at \$211.2 million. Salmon was the major canned item exported, with 77.4 million pounds valued at \$143.3 million. Cured items were 15.5 million pounds valued at \$23.2 million. Caviar and roe exports were 72.4 million pounds valued at \$258.0 million.

Exports of nonedible products were valued at \$6.4 billion compared with \$6.6 billion in 1998. Exports of fish meal amounted to 210.7 million pounds valued at \$68.4 million. The total value of edible and nonedible exports was \$8.7 billion--a decrease of \$648.2 million compared with 1997.

U.S. Trade in Edible Fishery Products, 1998



FOREIGN TRADE

63

IMPORTS

FISHERY PRODUCTS IMPORTS, BY PRINCIPAL ITEMS, 1997 AND 1998

Item	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Edible fishery products:						
Fresh and frozen:						
Whole or eviscerated:						
Freshwater	76,224	34,575	72,031	84,161	38,175	73,450
Flatfish	36,993	16,780	70,861	38,364	17,402	70,119
Groundfish	63,700	28,894	52,363	58,922	26,727	53,054
Salmon	162,803	73,847	344,427	152,170	69,024	319,275
Tuna (1)	438,493	198,899	494,181	571,000	259,004	555,766
Other	253,280	114,887	330,870	260,478	118,152	320,773
Filletts and steaks:						
Freshwater	30,719	13,934	83,563	37,037	16,800	96,640
Flatfish	42,679	19,359	92,067	49,506	22,456	103,614
Groundfish	176,125	79,890	334,206	186,937	84,794	356,070
Other	265,282	120,331	551,753	305,081	138,384	636,439
Blocks and slabs	233,972	106,129	231,008	232,843	105,617	270,686
Surimi	22,553	10,230	10,879	7,749	3,515	5,330
Shrimp	644,702	292,435	2,942,635	692,017	313,897	3,101,790
Crabmeat	14,462	6,560	66,918	16,684	7,568	67,262
Lobster:						
American	40,798	18,506	238,881	42,542	19,297	245,578
Spiny	24,674	11,192	242,181	21,248	9,638	230,133
Scallops (meats)	60,146	27,282	237,078	52,445	23,789	218,250
Other fish and shellfish	273,933	124,255	626,023	310,004	140,617	631,687
Total, fresh and frozen	2,861,538	1,297,985	7,021,925	3,119,192	1,414,856	7,355,916
Canned:						
Anchovy	6,942	3,149	22,247	6,989	3,170	21,522
Herring	1,488	675	2,078	4,325	1,962	4,846
Mackerel	28,779	13,054	15,912	24,572	11,146	11,895
Salmon	1,228	557	4,793	1,323	600	4,990
Sardines	42,771	19,401	49,302	44,328	20,107	53,740
Tuna	212,171	96,240	249,963	240,409	109,049	288,970
Clams	9,855	4,470	10,807	11,186	5,074	10,559
Crabmeat	15,871	7,199	66,521	22,020	9,988	95,958
Lobsters	176	80	1,595	121	55	1,402
Oysters	9,934	4,506	24,795	13,600	6,169	25,629
Shrimp	3,620	1,642	10,954	3,406	1,545	10,622
Balls, cakes, and puddings	8,523	3,866	14,512	9,489	4,304	14,302
Other fish and shellfish	45,732	20,744	51,832	46,409	21,051	43,124
Total, canned	387,090	175,583	525,311	428,177	194,220	587,559
Cured:						
Dried	21,914	9,940	58,030	19,687	8,930	55,281
Pickled or salted	36,887	16,732	46,698	41,693	18,912	56,899
Smoked or kippered	10,234	4,642	26,875	10,836	4,915	28,381
Total, cured	69,035	31,314	131,603	72,216	32,757	140,561
Caviar and roe	4,286	1,944	31,169	4,358	1,977	33,215
Prepared meals	3,336	1,513	12,243	3,197	1,450	10,330
Other fish and shellfish	13,565	6,153	31,992	19,883	9,019	45,604
Total edible fishery products	3,338,849	1,514,492	7,754,243	3,647,023	1,654,279	8,173,185
Nonedible fishery products:						
Meal and scrap	142,049	64,433	36,484	125,404	56,883	33,574
Fish oils	25,622	11,622	23,388	24,213	10,983	19,604
Other	-	-	6,714,211	-	-	7,406,309
Total nonedible fishery products	-	-	6,774,083	-	-	7,459,487
Grand total	-	-	14,528,326	-	-	15,632,672

(1) Includes loins and discs.

Note:--Data include imports into the United States and Puerto Rico and landings of tuna by foreign vessels at American Samoa. Statistics on imports are the weight of individual products as exported, i.e., fillets, steaks, headed, etc.

Imports and Exports of Fishery Products, Annual Summary, 1998, Current Fishery Statistics No. 9802 provides additional information.

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

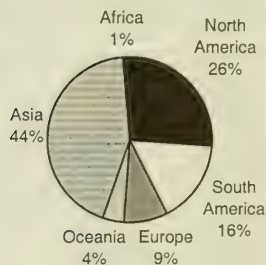
IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1989-98

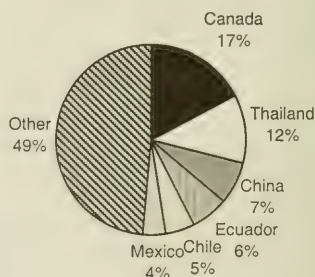
Year	Edible		Nonedible	Total	
	Thousand pounds	Metric tons	-----Thousand dollars-----		
1989	3,243,022	1,471,025	5,497,849	4,106,507	9,604,356
1990	2,884,596	1,308,444	5,233,167	3,814,513	9,047,680
1991	3,014,819	1,367,513	5,671,887	3,763,173	9,435,060
1992	2,893,954	1,312,689	5,705,876	4,165,386	9,871,262
1993	2,917,160	1,323,215	5,848,738	4,773,649	10,622,387
1994	3,034,841	1,376,595	6,645,132	5,341,740	11,986,872
1995	3,066,458	1,390,936	6,791,690	5,659,933	12,451,623
1996	3,169,787	1,437,806	6,729,614	6,330,741	13,060,355
1997	3,338,849	1,514,492	7,754,243	6,774,083	14,528,326
1998	3,647,023	1,654,279	8,173,185	7,459,487	15,632,672

Source:--U.S. Department of Commerce, Bureau of the Census.

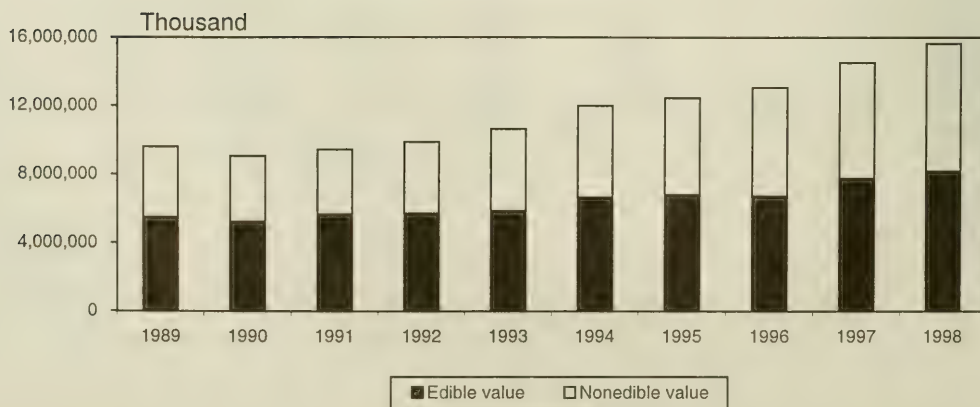
U.S. Imports from Major Areas by Volume



U.S. Imports from Major Exporters by Volume



U.S. FISHERY PRODUCT IMPORTS



IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1998

Continent and Country	Edible		Nonedible		Total
	Thousand pounds	Metric tons	-----Thousand dollars-----		
North America:					
Canada	627,932	284,828	1,405,485	834,062	2,239,547
Mexico	141,601	64,230	478,954	231,231	710,185
Dominican Republic	231	105	1,134	149,104	150,238
Panama	42,511	19,283	122,445	6,865	129,310
Honduras	31,867	14,455	107,467	15	107,482
Other	112,166	50,878	331,365	87,867	419,232
Total	956,309	433,779	2,446,850	1,309,144	3,755,994
South America:					
Ecuador	234,633	106,429	697,214	10,573	707,787
Chile	179,005	81,196	369,245	26,686	395,931
Peru	25,029	11,353	59,349	64,991	124,340
Brazil	17,751	8,052	61,560	51,482	113,042
Argentina	69,449	31,502	87,492	14,169	101,661
Other	70,459	31,960	163,023	56,048	219,071
Total	596,327	270,492	1,437,883	223,949	1,661,832
Europe:					
European Union:					
Italy	1,023	464	3,095	1,464,357	1,467,452
France	10,093	4,578	8,644	639,449	648,093
Germany	1,530	694	2,469	279,032	281,501
United Kingdom	12,555	5,695	27,325	175,442	202,767
Netherlands	7,857	3,564	24,772	78,134	102,906
Other	26,989	12,242	61,872	163,104	224,976
Total	60,047	27,237	128,177	2,799,518	2,927,695
Other:					
Russian Federation	111,998	50,802	253,794	2,460	256,254
Iceland	79,784	36,190	188,364	10,250	198,614
Turkey	730	331	1,848	165,735	167,583
Norway	53,843	24,423	118,391	20,300	138,691
Switzerland	126	57	73	119,780	119,853
Other	7,890	3,579	20,168	45,630	65,798
Total	254,371	115,382	582,638	364,155	946,793
Asia:					
Thailand	427,267	193,807	1,393,297	389,748	1,783,045
Japan	119,304	54,116	194,284	514,497	708,781
India	74,321	33,712	182,135	430,620	612,755
China	263,871	119,691	324,569	236,205	560,774
Hong Kong	6,651	3,017	10,206	463,333	473,539
Other	687,011	311,626	1,104,714	615,098	1,719,812
Total	1,578,425	715,969	3,209,205	2,649,501	5,858,706
Oceania:					
New Zealand	83,001	37,649	140,234	6,437	146,671
Australia	27,959	12,682	78,085	36,963	115,048
French Polynesia	1,058	480	1,949	27,023	28,972
Fiji	18,031	8,179	20,096	2,296	22,392
Western Samoa	9,504	4,311	10,325	78	10,403
Other	9,720	4,409	9,839	1,759	11,598
Total	149,273	67,710	260,528	74,556	335,084
Africa:					
South Africa	18,177	8,245	38,731	14,364	53,095
Namibia	11,239	5,098	30,764	120	30,884
Morocco	8,583	3,893	20,174	4,723	24,897
Zimbabwe	0	0	0	9,700	9,700
Tanzania	2,566	1,164	4,183	5,051	9,234
Other	11,706	5,310	14,052	4,706	18,758
Total	52,271	23,710	107,904	38,664	146,568
Grand total	3,647,023	1,654,279	8,173,185	7,459,487	15,632,672

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

IMPORTS

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS,
BY SPECIES AND TYPE, 1997 AND 1998

Species and type	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Regular blocks and slabs:						
Cod	32,723	14,843	49,872	30,538	13,852	63,265
Flatfish	6,951	3,153	11,050	7,328	3,324	12,662
Haddock	14,650	6,645	21,378	9,517	4,317	20,133
Ocean perch	578	262	863	520	236	990
Pollock	133,528	60,568	101,772	124,470	56,459	113,989
Whiting	17,368	7,878	16,339	18,960	8,600	18,328
Other	9,630	4,368	12,069	14,337	6,503	19,513
Total	215,427	97,717	213,343	205,669	93,291	248,880
Minced blocks and slabs	18,545	8,412	17,665	27,174	12,326	21,806
Grand total	233,972	106,129	231,008	232,843	105,617	270,686

Source:--U.S. Department of Commerce, Bureau of the Census.

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS,
BY COUNTRY OF ORIGIN, 1997 AND 1998

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Russian Federation	67,833	30,769	58,146	66,579	30,200	72,956
China	81,052	36,765	61,042	87,106	39,511	70,029
Norway	18,219	8,264	26,415	8,777	3,981	18,358
Iceland	9,806	4,448	14,917	9,259	4,200	18,251
Canada	13,774	6,248	16,587	11,984	5,436	17,970
Denmark	6,252	2,836	10,404	7,551	3,425	16,412
Argentina	10,487	4,757	8,827	14,544	6,597	14,247
Indonesia	1,213	550	1,974	3,913	1,775	8,321
St. Pierre & Miquelon	862	391	1,349	1,706	774	3,677
Other	24,473	11,101	31,347	21,424	9,718	30,465
Total	233,972	106,129	231,008	232,843	105,617	270,686

Source:--U.S. Department of Commerce, Bureau of the Census.

GROUND FISH FILLET AND STEAK IMPORTS, BY SPECIES, 1997 AND 1998 (1)

Species	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Cod	95,051	43,115	210,068	77,794	35,287	194,193
Haddock (2)	59,848	27,147	84,788	83,303	37,786	108,668
Ocean perch	21,226	9,628	39,350	25,840	11,721	53,209
Total	176,125	79,890	334,206	186,937	84,794	356,070

(1) Does not include data on fish blocks and slabs.

(2) Includes some quantities of cusk, hake, and pollock fillets.

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

CANNED TUNA NOT IN OIL, QUOTA AND IMPORTS, 1989-98

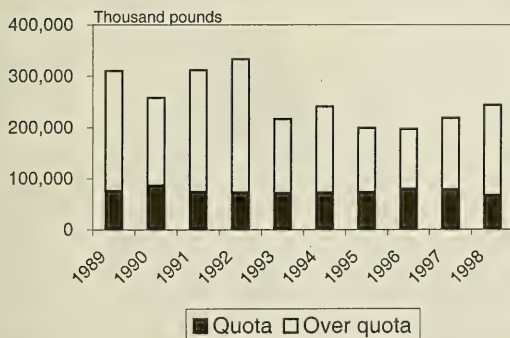
Year	Quota (1)		Over quota (2)		Total	
	Thousand pounds	Metric tons	Thousand pounds	Metric tons	Thousand pounds	Metric tons
1989	76,733	34,806	234,323	106,288	311,056	141,094
1990	87,157	39,534	171,472	77,779	258,628	117,313
1991	75,093	34,062	237,237	107,610	312,330	141,672
1992	73,724	33,441	259,739	117,817	333,463	151,258
1993	72,681	32,968	144,287	65,448	216,968	98,416
1994	73,294	33,246	168,224	76,306	241,518	109,552
1995	73,367	33,279	126,176	57,233	199,543	90,512
1996	80,027	36,300	117,205	53,164	197,232	89,464
1997	78,620	35,662	139,714	63,374	218,335	99,036
1998	67,317	30,535	176,648	80,127	243,965	110,662

(1) Imports have been subject to tariff quotas since April 14, 1956, and are based on 20 percent of the previous year's domestic pack, excluding the pack in American Samoa. Dutiable in 1956 to 1967 at 12.5 percent ad valorem; 1968, 11 percent; 1969, 10 percent; 1970, 8.5 percent; 1971, 7 percent; and 1972 to 1998, 6 percent.
 (2) Dutiable in 1972 to 1998, 12.5 percent.

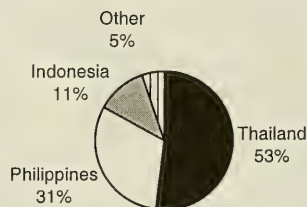
Note:--Data in this table will not agree with tuna import data released by the U.S. Department of Commerce, Bureau of the Census. Any tuna entered for consumption or withdrawn from a warehouse for consumption during the calendar year, except for receipts for possessions of the U.S., is subject to this quota.

Source:--U.S. Department of the Treasury, U.S. Customs Service.

Canned Tuna Quota and Imports



Imports of Canned Tuna by Major Exporter, 1998



CANNED TUNA, BY COUNTRY OF ORIGIN, 1997 AND 1998

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Thailand	99,513	45,139	129,163	114,302	51,847	150,367
Philippines	80,677	36,595	80,161	85,726	38,885	89,899
Indonesia	20,911	9,485	27,215	27,705	12,567	33,221
Malaysia	2,784	1,263	4,894	2,396	1,087	3,844
Papua New Guinea	106	48	116	3,472	1,575	3,525
Mexico	4,868	2,208	3,789	3,541	1,606	2,947
Ecuador	1,058	480	1,033	1,526	692	2,549
Spain	196	89	499	258	117	751
India	71	32	127	258	117	410
Other	1,986	901	2,966	1,226	556	1,457
Total	212,171	96,240	249,963	240,409	109,049	288,970

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

IMPORTS

SHRIMP IMPORTS, BY COUNTRY OF ORIGIN, 1997 AND 1998

Country	1997			1998		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
North America:						
Mexico	74,864	33,958	374,102	78,120	35,435	382,517
Panama	23,236	10,540	87,128	22,465	10,190	91,552
Honduras	18,027	8,177	70,177	18,990	8,614	67,152
Canada	11,254	5,105	26,326	17,366	7,877	45,901
Nicaragua	7,564	3,431	28,663	8,373	3,798	31,298
El Salvador	7,390	3,352	29,974	8,838	4,009	30,906
Guatemala	4,773	2,165	19,055	5,223	2,369	18,807
Belize	1,625	737	7,399	3,056	1,386	11,119
Costa Rico	3,951	1,792	15,870	1,832	831	10,832
Greenland	820	372	1,873	1,082	491	2,773
Other	79	36	235	35	16	124
Total	153,583	69,665	660,802	165,380	75,016	692,981
South America:						
Ecuador	140,517	63,738	583,262	142,303	64,548	572,047
Venezuela	19,098	8,663	76,162	12,615	5,722	47,698
Peru	9,883	4,483	45,577	15,315	6,947	45,499
Guyana	9,453	4,288	25,675	12,414	5,631	29,717
Colombia	7,172	3,253	28,539	4,694	2,129	20,978
Brazil	1,215	551	4,856	1,812	822	7,382
Suriname	1,396	633	4,255	1,938	879	4,253
Chile	750	340	2,740	979	444	3,457
Argentina	42	19	46	66	30	200
Total	189,525	85,968	771,112	192,135	87,152	731,231
Europe:						
European Union:						
United Kingdom	53	24	204	79	36	238
Denmark	397	180	798	88	40	234
Germany	35	16	68	73	33	200
Sweden	4	2	23	13	6	104
Netherlands	11	5	29	35	16	68
Other	123	27	292	141	12	79
Total	560	254	1,414	315	143	923
Other:						
Norway	119	54	372	831	377	2,394
Iceland	313	142	999	789	358	2,136
Russian Federation	-	-	-	194	88	395
Bulgaria	-	-	-	37	17	272
Total	432	196	1,371	1,852	840	5,197
Asia:						
Thailand	161,822	73,402	920,946	203,407	92,265	1,088,062
Indonesia	28,272	12,824	161,615	33,697	15,285	188,739
India	44,103	20,005	138,698	44,425	20,151	150,847
Bangladesh	21,539	9,770	132,487	13,929	6,318	90,847
Viet Nam	7,837	3,555	46,234	11,087	5,029	75,909
China	28,393	12,879	67,763	15,423	6,996	35,936
Philippines	2,617	1,187	12,983	3,915	1,776	20,073
Sri Lanka	414	188	2,299	1,442	654	8,423
Pakistan	2,967	1,346	11,111	3,186	1,445	6,852
Malaysia	708	321	2,940	1,612	731	4,482
Other	5,157	2,339	21,054	3,424	1,553	11,203
Total	303,829	137,816	1,518,130	335,547	152,203	1,681,373
Oceania	35	16	276	82	37	375
Africa	357	162	484	112	51	332
Grand total	648,322	294,077	2,953,589	695,423	315,442	3,112,412

Note:--Statistics on imports are the weights of the individual products as received, i.e., raw headless, peeled, etc.

Source:--U.S. Department of Commerce, Bureau of the Census.

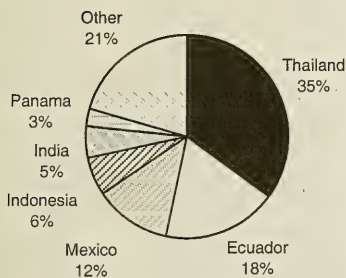
IMPORTS

SHRIMP IMPORTS, BY TYPE OF PRODUCT, 1997 AND 1998

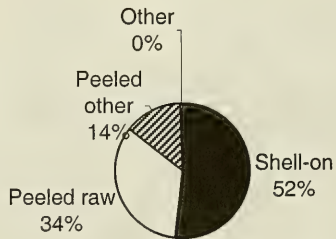
Type of product	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Shell-on (heads off)	343,642	155,875	1,626,734	341,894	155,082	1,607,185
Peeled:						
Canned	3,620	1,642	10,954	3,406	1,545	10,622
Not breaded:						
Raw	235,550	106,845	952,130	264,378	119,921	1,053,583
Other	65,060	29,511	361,538	85,128	38,614	438,206
Breaded	450	204	2,233	617	280	2,816
Total	648,322	294,077	2,953,589	695,423	315,442	3,112,412

Source:--U.S. Department of Commerce, Bureau of the Census.

Shrimp Imports by Major Exporter, 1998



Shrimp Imports by Type, 1998



FISH MEAL AND SCRAP IMPORTS, BY COUNTRY OF ORIGIN, 1997 AND 1998

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Iceland	17,485	7,931	5,229	34,908	15,834	9,594
Canada	16,788	7,615	5,671	16,144	7,323	5,742
Panama	20,046	9,093	3,923	29,021	13,164	5,079
Mexico	32,968	14,954	7,858	17,141	7,775	4,604
Chile	6,276	2,847	1,602	13,971	6,337	4,218
Peru	47,862	21,710	11,017	10,430	4,731	2,628
Japan	106	48	671	1,343	609	700
Denmark	42	19	12	785	356	300
China	40	18	72	238	108	200
Other	437	198	429	1,424	646	509
Total	142,049	64,433	36,484	125,404	56,883	33,574

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

EXPORTS

FISHERY PRODUCTS EXPORTS, BY PRINCIPAL ITEMS, 1997 AND 1998 (1)

Item	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Edible fishery products:						
Fresh and frozen:						
Whole or eviscerated:						
Freshwater	7,972	3,616	8,330	4,751	2,155	6,081
Flatfish	238,637	108,245	148,158	164,856	74,778	103,219
Groundfish	129,915	58,929	97,640	95,735	43,425	74,817
Herring	87,633	39,750	48,245	49,661	22,526	31,164
Sablefish	28,770	13,050	64,314	22,707	10,300	48,253
Salmon	189,942	86,157	307,521	153,436	69,598	255,102
Tuna	24,092	10,928	34,527	34,026	15,434	37,551
Other	264,612	120,027	226,043	281,732	127,793	211,791
Fillets, and steaks:						
Freshwater	379	172	747	520	236	1,123
Groundfish	23,367	10,599	25,820	63,481	28,795	63,478
Other	31,268	14,183	47,608	37,015	16,790	54,316
Blocks and slabs	64,101	29,076	61,786	44,848	20,343	45,820
Surimi	310,242	140,725	330,976	255,317	115,811	248,415
Fish sticks	25,009	11,344	31,508	25,734	11,673	30,354
Clams	1,803	818	3,867	1,649	748	2,825
Crabs	43,133	19,565	108,661	50,739	23,015	108,994
Crabmeat	3,399	1,542	7,818	3,278	1,487	5,568
Lobsters	47,249	21,432	208,646	42,972	19,492	187,762
Scallops (meats)	9,861	4,473	37,116	7,306	3,314	25,055
Sea urchins	7,321	3,321	19,177	4,220	1,914	10,063
Shrimp	34,813	15,791	133,442	32,432	14,711	121,397
Squid	169,509	76,889	91,996	37,595	17,053	31,839
Other fish and shellfish	34,081	11,843	60,784	28,283	10,674	53,773
Total, fresh and frozen	1,769,136	802,475	2,104,730	1,437,542	652,065	1,758,760
Canned:						
Salmon	81,621	37,023	135,437	77,450	35,131	143,288
Sardines	9,321	4,228	8,115	6,314	2,864	4,963
Tuna	9,967	4,521	15,649	9,319	4,227	15,437
Abalone	392	178	7,884	238	108	4,656
Crabmeat	608	276	1,332	558	253	1,374
Shrimp	1,470	667	7,029	1,660	753	8,732
Squid	5,725	2,597	3,504	132	60	155
Other fish and shellfish	20,386	9,247	23,761	48,570	22,031	32,596
Total, canned	129,492	58,737	202,711	144,240	65,427	211,201
Cured:						
Dried	3,221	1,461	10,347	2,434	1,104	6,215
Pickled or salted	6,691	3,035	8,048	12,624	5,726	15,323
Smoked or kippered	679	308	2,503	430	195	1,673
Total, cured	10,591	4,804	20,898	15,487	7,025	23,211
Caviar and roe:						
Herring	18,483	8,384	19,763	15,095	6,847	17,788
Pollock	37,209	16,878	162,422	26,746	12,132	84,714
Salmon	17,491	7,934	63,487	15,800	7,167	50,950
Sea urchin	6,049	2,744	87,090	4,656	2,112	73,589
Other	10,725	4,865	36,361	10,086	4,575	30,955
Total, caviar and roe	89,959	40,805	369,123	72,384	32,833	257,996
Prepared meals	1,852	840	2,591	3,508	1,591	4,238
Other fish and shellfish	17,859	8,101	13,029	158,005	7,175	12,614
Total edible fishery products	2,018,889	915,762	2,713,082	1,688,979	766,116	2,268,020
Nonedible fishery products:						
Meal and scrap	216,289	98,108	57,197	210,658	95,554	68,447
Fish oils	215,255	97,639	53,716	196,664	89,206	59,890
Other	-	-	6,583,336	-	-	6,368,938
Total nonedible fishery products	-	-	6,640,533	-	-	6,437,385
Grand total	-	-	9,353,615	-	-	8,705,405

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

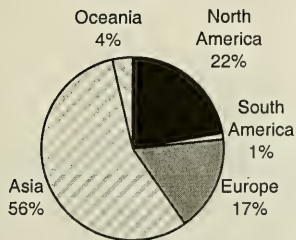
FISHERY PRODUCTS EXPORTS, 1989-98 (1)

Year	Edible		Nonedible		Total
	Thousand pounds	Metric tons	-----Thousand dollars-----		
1989	1,405,977	637,747	2,355,603	2,582,538	4,938,141
1990	1,947,292	883,286	2,881,262	3,084,677	5,965,939
1991	2,058,594	933,772	3,155,771	3,386,037	6,541,808
1992	2,087,606	946,932	3,465,667	3,653,965	7,119,632
1993	1,986,027	900,856	3,076,813	3,847,911	6,924,724
1994	1,978,507	897,445	3,126,120	4,254,741	7,380,861
1995	2,047,181	928,595	3,262,242	5,005,878	8,268,120
1996	2,112,055	958,022	3,032,282	5,621,169	8,653,451
1997	2,018,889	915,762	2,713,082	6,640,553	9,353,635
1998	1,688,979	766,116	2,268,020	6,437,385	8,705,405

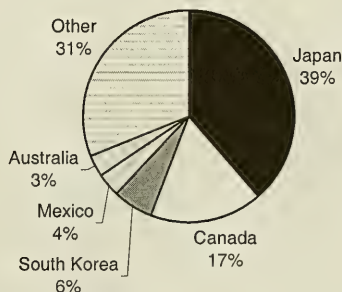
(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

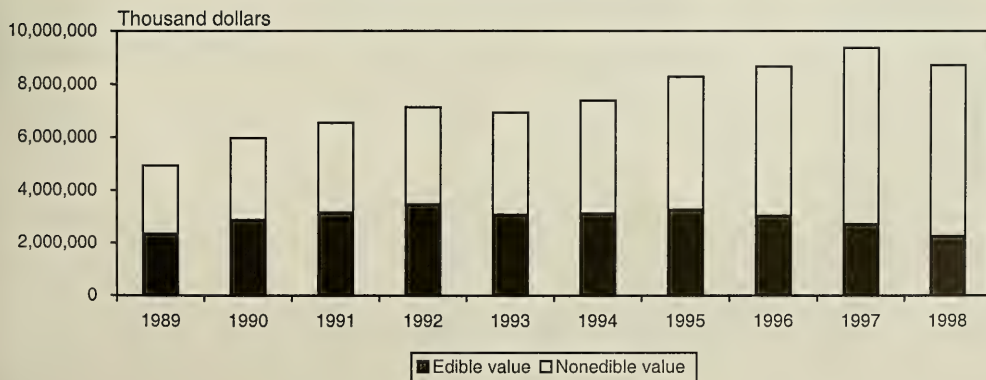
U.S. Exports to Major Areas by Volume, 1998



U.S. Exports to Major Importers by Volume, 1998



U.S. FISHERY PRODUCT EXPORTS



FOREIGN TRADE

EXPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS EXPORTS, 1998 (1)

Continent and Country	Edible		Nonedible		Total
	Thousand pounds	Metric tons	-----Thousand dollars-----		
North America:					
Canada	288,421	130,827	501,694	1,394,050	1,895,744
Mexico	60,221	27,316	62,308	608,273	670,581
Netherlands Antilles	1,116	506	1,800	92,198	93,998
Panama	3,223	1,462	4,078	64,154	68,232
Dominican Republic	3,296	1,495	3,394	60,357	63,751
Other	17,956	8,145	25,510	254,409	279,919
Total	374,233	169,751	598,784	2,473,441	3,072,225
South America:					
Brazil	3,849	1,746	6,351	203,832	210,183
Argentina	485	220	499	83,934	84,433
Venezuela	4,257	1,931	2,857	61,806	64,663
Colombia	3,311	1,502	3,419	50,642	54,061
Chile	485	220	402	45,309	45,711
Other	5,631	2,554	6,373	87,508	93,881
Total	18,018	8,173	19,901	533,031	552,932
Europe:					
European Union:					
United Kingdom	44,200	20,049	86,492	279,981	366,473
Netherlands	20,302	9,209	27,723	201,068	228,791
France	51,316	23,277	85,774	114,526	200,300
Germany	34,019	15,431	42,539	155,589	198,128
Belgium	5,884	2,669	11,677	141,708	153,385
Other	89,888	40,773	127,626	295,159	422,785
Total	245,610	111,408	381,831	1,188,031	1,569,862
Other:					
Switzerland	851	386	2,924	240,511	243,435
Norway	25,371	11,508	23,436	18,796	42,232
Russian Federation	4,733	2,147	5,482	17,571	23,053
Estonia	1,087	493	2,848	11,776	14,624
Turkey	198	90	215	10,358	10,573
Other	10,690	4,849	7,122	38,728	45,850
Total	42,930	19,473	42,027	337,740	379,767
Asia:					
Japan	654,297	296,787	914,096	639,068	1,553,164
Hong Kong	14,281	6,478	30,441	302,296	332,737
South Korea	103,709	47,042	93,474	96,769	190,243
Taiwan	21,755	9,868	40,169	119,585	159,754
Singapore	2,163	981	7,231	120,393	127,624
Other	150,651	68,335	104,393	370,347	474,740
Total	946,856	429,491	1,189,804	1,648,458	2,838,262
Oceania:					
Australia	55,620	25,229	28,954	146,420	175,374
New Zealand	1,850	839	2,517	24,552	27,069
French Polynesia	1,038	471	1,208	1,834	3,042
New Caledonia	209	95	204	910	1,114
Fiji	897	407	695	292	987
Other	955	433	630	1,349	1,979
Total	60,569	27,474	34,208	175,357	209,565
Africa:					
South Africa	540	245	956	48,827	49,783
Egypt	40	18	68	9,547	9,615
Zimbabwe	-	-	-	9,252	9,252
Nigeria	-	-	-	5,199	5,199
Morocco	20	9	20	1,286	1,306
Other	163	74	421	7,216	7,637
Total	763	346	1,465	81,327	82,792
Grand total	1,688,979	766,116	2,268,020	6,437,385	8,705,405

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

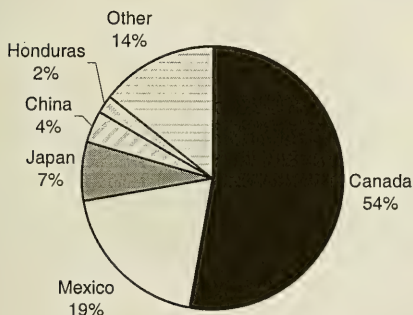
FRESH AND FROZEN SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Canada	17,381	7,884	71,724	15,858	7,193	64,085
Mexico	8,023	3,639	24,772	8,131	3,688	23,481
Japan	1,620	735	9,366	1,711	776	8,813
China	1,495	678	4,119	1,724	782	4,697
Honduras	935	424	3,558	791	359	2,906
Thailand	809	367	2,958	631	286	2,729
Brazil	988	448	3,261	487	221	1,712
Singapore	46	21	186	280	127	1,709
Bermuda	159	72	1,012	163	74	1,063
Other	3,358	1,523	12,486	2,657	1,205	10,202
Total	34,813	15,791	133,442	32,432	14,711	121,397

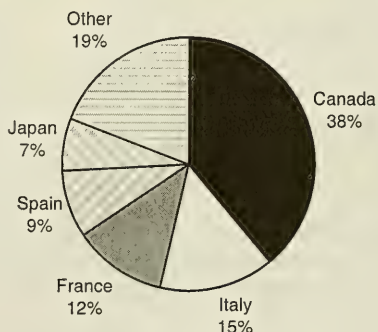
(1) Figures reflect both domestic and foreign (re-export).

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. Exports of Shrimp, 1998



U.S. Exports of Lobster, 1998



FRESH AND FROZEN LOBSTER EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Canada	28,151	12,769	93,850	21,799	9,888	72,816
Italy	3,761	1,706	19,617	5,337	2,421	28,019
France	3,131	1,420	16,971	4,160	1,887	22,085
Spain	1,916	869	9,372	3,399	1,542	16,084
Japan	2,246	1,019	15,821	1,978	897	12,610
Taiwan	2,884	1,308	23,229	1,367	620	11,001
Germany	492	223	2,839	637	289	3,601
Hong Kong	1,089	494	6,270	516	234	3,168
United Kingdom	518	235	2,790	509	231	2,478
Other	3,062	1,389	17,887	3,269	1,483	15,900
Total	47,249	21,432	208,646	42,972	19,492	187,762

(1) Figures reflect both domestic and foreign (re-export).

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

EXPORTS

FRESH AND FROZEN SALMON EXPORTS, WHOLE OR EVISCERATED,
BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

Country	1997			1998		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Japan	113,477	51,473	208,038	66,918	30,354	148,041
Canada	35,289	16,007	52,136	43,550	19,754	56,196
France	11,058	5,016	12,750	9,303	4,220	10,171
China	2,533	1,149	2,513	5,481	2,486	9,735
Germany	2,899	1,315	2,849	10,300	4,672	9,226
United Kingdom	2,163	981	2,210	2,244	1,018	3,083
Denmark	3,366	1,527	3,566	2,727	1,237	2,799
Belgium	3,662	1,661	4,383	1,821	826	2,318
Netherlands	957	434	1,338	1,069	485	1,786
Other	14,537	6,594	17,738	10,022	4,546	11,747
Total	189,942	86,157	307,521	153,436	69,598	255,102

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

CANNED SALMON EXPORTS,
BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

Country	1997			1998		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
United Kingdom	35,075	15,910	67,228	31,804	14,426	66,885
Canada	20,763	9,418	29,277	27,401	12,429	43,001
Australia	11,565	5,246	18,415	7,917	3,591	15,380
Netherlands	6,479	2,939	10,192	5,236	2,375	8,689
France	831	377	1,139	1,691	767	2,899
New Zealand	1,664	755	2,140	871	395	1,997
Belgium	1,612	731	2,108	677	307	1,043
Japan	589	267	910	276	125	533
Ireland	388	176	668	337	153	518
Other	2,654	1,204	3,360	1,241	563	2,343
Total	81,621	37,023	135,437	77,450	35,131	143,288

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

FROZEN SURIMI EXPORTS,
BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

Country	1997			1998		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Japan	242,012	109,776	261,683	188,379	85,448	176,879
South Korea	37,364	16,948	41,335	42,236	19,158	48,470
Taiwan	5,095	2,311	4,032	6,177	2,802	5,141
France	6,874	3,118	4,970	5,234	2,374	4,644
China	8,510	3,860	7,165	2,926	1,327	2,738
Norway	86	39	86	1,396	633	2,315
Canada	1,559	707	1,652	1,440	653	1,296
Netherlands	97	44	165	1,124	510	1,224
Malaysia	1,193	541	1,454	915	415	849
Other	7,454	3,381	8,434	5,492	2,491	4,859
Total	310,242	140,725	330,976	255,317	115,811	248,415

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

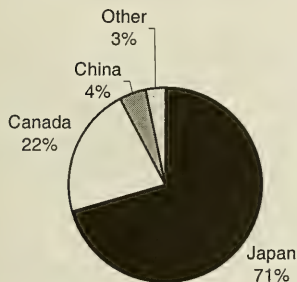
FRESH AND FROZEN CRAB EXPORTS,
BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	28,955	13,134	82,230	33,552	15,219	76,928
Canada	10,571	4,795	17,712	12,681	5,752	23,522
China	1,349	612	2,228	2,557	1,160	4,812
Hong Kong	163	74	418	441	200	551
United Kingdom	55	25	332	121	55	459
Thailand	897	407	2,658	461	209	377
South Korea	75	34	301	55	25	357
France	9	4	50	82	37	344
Belgium	49	22	313	130	59	201
Other	1,010	458	2,419	659	299	1,443
Total	43,133	19,565	108,661	50,739	23,015	108,994

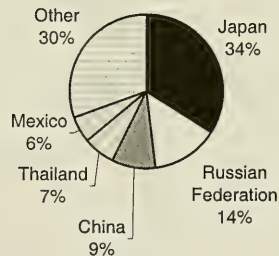
(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. Exports of Crab, 1998



U.S. Exports of Crabmeat, 1998

FRESH AND FROZEN CRABMEAT EXPORTS,
BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	1,497	679	3,813	882	400	1,884
Russian Federation	875	397	1,206	699	317	793
China	183	83	598	370	168	515
Thailand	-	-	-	399	181	371
Mexico	86	39	149	112	51	307
Canada	150	68	443	73	33	257
Hong Kong	159	72	459	42	19	209
Portugal	-	-	-	93	42	130
Germany	2	1	9	128	58	124
Other	448	203	1,141	481	218	978
Total	3,399	1,542	7,818	3,278	1,487	5,568

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

EXPORTS

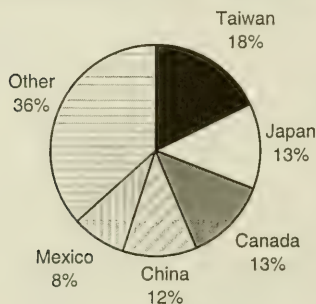
FISH MEAL EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Taiwan	43,651	19,800	10,897	42,355	19,212	12,234
Japan	22,123	10,035	6,108	27,793	12,607	8,851
Canada	39,169	17,767	10,463	35,280	16,003	8,678
China	73,318	33,257	13,995	29,156	13,225	7,968
Mexico	1,887	856	2,093	7,690	3,488	5,632
Philippines	7,474	3,390	2,386	5,871	2,663	5,132
Germany	15	7	30	12,542	5,689	3,154
Italy	62	28	289	8,532	3,870	2,688
Israel	37	17	5	4,841	2,196	1,532
Other	28,552	12,951	10,931	36,599	16,601	12,578
Total	216,289	98,108	57,197	210,658	95,554	68,447

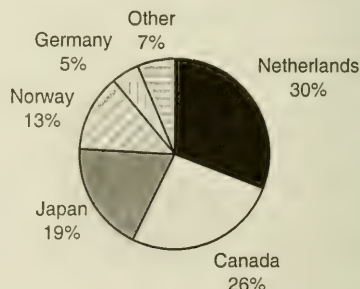
(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. Exports of Fish Meal, 1998



U.S. Exports of Fish Oil, 1998

FISH AND MARINE ANIMAL OIL EXPORTS,
BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Netherlands	116,249	52,730	26,420	63,819	28,948	18,463
Canada	46,806	21,231	13,244	49,720	22,553	15,867
Japan	6,762	3,067	1,251	35,950	16,307	11,104
Norway	121	55	59	28,774	13,052	7,809
Germany	-	-	-	11,025	5,001	2,750
China	5,099	2,313	2,068	2,707	1,228	1,743
United Kingdom	185	84	108	639	290	583
Mexico	22,716	10,304	5,131	1,858	843	478
Hong Kong	3,018	1,369	1,619	604	274	367
Other	14,299	6,486	3,816	1,565	710	726
Total	215,255	97,639	53,716	196,664	89,206	59,890

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

SUPPLY OF FISHERY PRODUCTS

77

U.S. SUPPLY OF EDIBLE AND INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1989-98 (Round weight)

Year	Domestic commercial landings (1)	Imports	Exports	Total
----- Million pounds -----				
1989	8,463	7,022	2,690	12,795
1990	9,404	6,945	4,191	12,158
1991	9,484	6,879	4,719	11,644
1992	9,637	6,469	5,278	10,828
1993	10,467	9,867	5,578	14,756
1994	10,461	8,848	5,202	14,107
1995	9,788	6,696	5,252	11,232
1996	9,565	6,909	5,418	11,056
1997	9,842	7,290	5,537	11,595
1998	9,194	7,703	4,889	12,008

(1) Preliminary.

Note:--The weights of U.S. landings and imports represent the round (live) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) which are shown in weight of meats excluding the shell.

U.S. SUPPLY OF EDIBLE COMMERCIAL FISHERY PRODUCTS, 1989-98 (Round weight)

Year	Domestic commercial landings (1)	Imports	Exports	Total
----- Million pounds -----				
1989	6,204	6,064	2,089	10,179
1990	7,041	5,621	3,396	9,266
1991	7,031	5,989	3,564	9,456
1992	7,618	5,624	4,123	9,119
1993	8,214	5,607	4,386	9,435
1994	7,936	5,778	4,306	9,408
1995	7,667	5,917	4,261	9,323
1996	7,474	6,150	4,374	9,250
1997	7,244	6,495	4,326	9,413
1998	7,173	7,001	3,709	10,465

(1) Preliminary.

U.S. SUPPLY OF INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1989-98 (Round weight)

Year	Domestic commercial landings (1)	Imports	Exports	Total
----- Million pounds -----				
1989	2,259	958	601	2,616
1990	2,363	1,324	795	2,892
1991	2,453	890	1,155	2,188
1992	2,019	845	1,448	1,416
1993	2,253	4,260	1,192	5,321
1994	2,525	3,070	896	4,699
1995	2,121	779	991	1,909
1996	2,091	759	1,044	1,806
1997	2,598	795	1,211	2,182
1998	2,021	702	1,180	1,543

(1) Preliminary.

U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1997 AND 1998

Item	Domestic commercial landings		Imports		Exports		Total	
	1997	1998	1997	1998	1997	1998	1997	1998
----- Thousand pounds--round weight-----								
Edible products:								
Finfish	5,969,912	5,935,025	4,611,551	4,901,349	3,828,613	3,374,636	6,751,850	7,461,738
Shellfish, et al	1,276,575	1,238,478	1,883,149	2,099,667	497,102	334,322	2,662,622	3,003,823
Total, edible	7,245,487	7,173,503	6,494,700	7,001,016	4,325,715	3,708,958	9,414,472	10,465,561
Industrial products: (1)								
Finfish	2,428,374	1,952,995	795,474	702,264	1,211,218	1,179,687	2,012,630	1,475,572
Shellfish, et al	169,386	67,472	(2)	(2)	(2)	(2)	169,386	67,472
Total, industrial	2,597,760	2,020,467	795,474	702,264	1,211,218	1,179,687	2,182,016	1,543,044
Total:								
Finfish	8,397,286	7,888,020	5,407,025	5,603,613	5,039,831	4,554,323	8,764,480	8,937,310
Shellfish, et al	1,445,961	1,305,950	1,883,149	2,099,667	497,102	334,322	2,832,008	3,071,295
Grand total	9,843,247	9,193,970	7,290,174	7,703,280	5,536,933	4,888,645	11,596,488	12,008,605

(1) Includes only quantity harvested for fish meal.

(2) Not available.

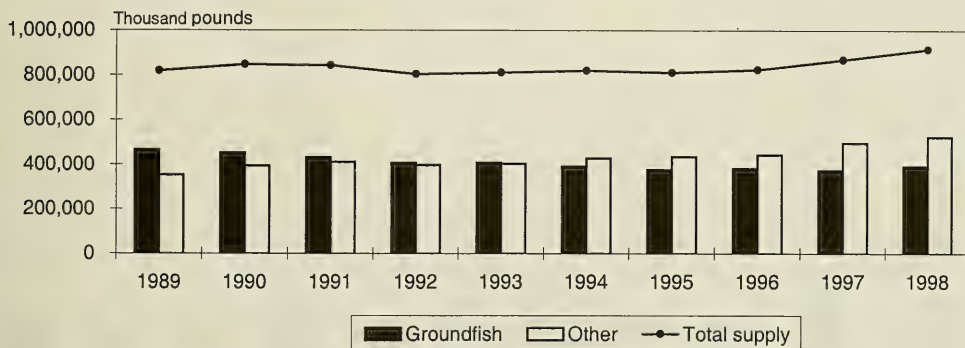
NOTE:-- Total landings shown in this table may not agree with landings reported in other tables due to rounding.

U.S. SUPPLY OF ALL FILLETS AND STEAKS, 1989-98 (Edible weight)

Year	U.S. production (1)	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1989	371,082	517,620	888,702	68,931	819,771
1990	440,692	458,413	899,105	51,599	847,506
1991	472,668	440,018	912,686	69,086	843,600
1992	448,664	408,059	856,723	52,247	804,476
1993	420,169	440,354	860,523	48,847	811,676
1994	425,022	439,059	864,081	43,252	820,829
1995	385,293	477,483	862,776	50,785	811,991
1996	423,309	476,469	899,778	74,368	825,410
1997	409,652	514,805	924,457	55,014	869,443
1998	438,744	578,561	1,017,305	101,016	916,289

(1) Includes fillets used to produce blocks.

U.S. Supply of Fillets and Steaks



U.S. SUPPLY OF GROUNDFISH FILLETS AND STEAKS, 1989-98 (Edible weight)

Year	U.S. production (1)	Imports	Total	Exports (2)	Total supply
----- Thousand pounds -----					
1989	211,498	265,001	476,499	9,652	466,847
1990	258,809	200,980	459,789	6,944	452,845
1991	264,323	202,409	466,732	34,442	432,290
1992	252,358	172,755	425,113	17,507	407,606
1993	233,755	186,516	420,271	12,242	408,029
1994	220,357	189,097	409,454	17,639	391,815
1995	216,699	184,845	401,544	24,606	376,938
1996	245,406	178,209	423,615	41,691	381,924
1997	220,403	176,125	396,528	23,367	373,161
1998	269,004	186,937	455,941	63,481	392,460

(1) Includes fillets used to produce blocks. Species include: cod, cusk, haddock, hake, pollock, and ocean perch.

(2) Species include: cod 1989-98; pollock 1991-98.

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF FRESH AND FROZEN TUNA, 1989-98

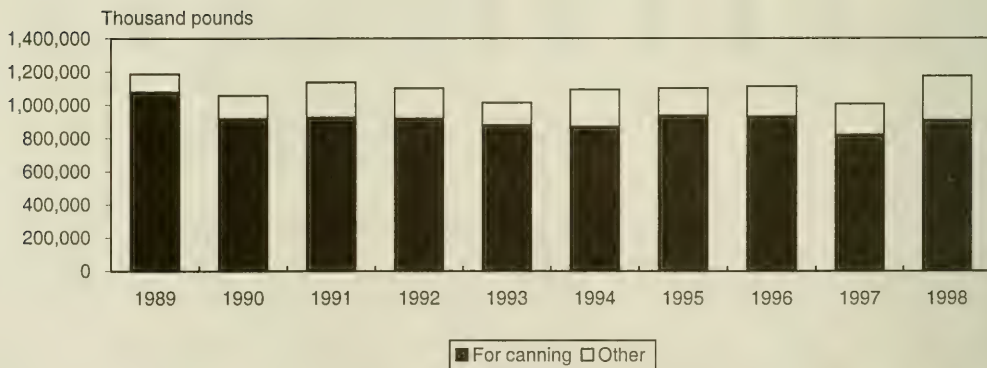
(Round weight)

Year	U.S. commercial landings (1)			Imports (2)			Exports total	Total supply
	For canning	Other	Total	For canning	Other	Total		
	----- Thousand pounds -----							
1989	452,278	87,823	540,101	625,738	38,564	664,302	17,478	1,186,925
1990	391,954	119,955	511,909	526,496	37,826	564,322	19,773	1,056,458
1991	346,322	178,025	524,347	579,556	50,290	629,846	17,714	1,136,479
1992	435,924	137,933	573,857	482,677	63,524	546,201	20,011	1,100,047
1993	426,036	62,933	488,969	453,046	92,965	546,011	21,660	1,013,320
1994	401,732	157,695	559,427	469,514	92,352	561,866	28,512	1,092,781
1995	407,036	86,956	493,992	531,266	105,304	636,570	28,869	1,101,693
1996	364,652	91,612	456,264	567,266	119,247	686,513	31,382	1,111,395
1997	354,074	102,567	456,641	467,526	105,806	573,332	24,092	1,005,881
1998	318,144	161,305	479,449	590,568	137,852	728,420	34,026	1,173,843

(1) Includes a quantity of fish landed at other ports by U.S.-flag vessels.

(2) Includes landings in American Samoa of foreign caught fish.

U.S. SUPPLY OF FRESH AND FROZEN TUNA



SUPPLY OF FISHERY PRODUCTS

81

U.S. SUPPLY OF CANNED SARDINES, 1989-98 (Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1989	13,221	56,379	69,600	9,070	60,530
1990	13,240	56,963	70,203	9,048	61,155
1991	13,986	48,515	62,501	10,668	51,833
1992	17,437	36,511	53,948	12,690	41,258
1993	14,354	39,111	53,465	12,275	41,190
1994	15,560	43,942	59,502	11,010	48,492
1995	13,567	42,280	55,847	11,773	44,074
1996	17,672	40,926	58,598	12,207	46,391
1997	15,976	42,771	58,747	9,321	49,426
1998	11,842	44,328	56,170	6,314	49,856

U.S. SUPPLY OF CANNED SALMON, 1989-98 (Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1989	197,044	2,943	199,987	40,497	159,490
1990	196,383	1,378	197,761	49,546	148,215
1991	195,744	983	196,727	66,134	130,593
1992	149,453	974	150,427	77,895	72,532
1993	198,344	428	198,772	84,610	114,162
1994	206,841	1,093	207,934	90,915	117,019
1995	243,568	1,202	244,770	98,197	146,573
1996	197,163	2,266	199,429	95,530	103,899
1997	162,106	1,228	163,334	81,621	81,713
1998	162,502	1,323	163,825	77,450	86,375

U.S. SUPPLY OF CANNED TUNA, 1989-98 (Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1989	686,267	348,212	1,034,479	6,495	1,027,984
1990	580,601	284,593	865,194	9,039	856,155
1991	592,786	351,744	944,530	11,310	933,220
1992	608,981	323,413	932,394	10,141	922,253
1993	618,743	224,419	843,162	8,534	834,628
1994	609,514	249,043	858,557	8,391	850,166
1995	666,581	215,365	881,946	7,385	874,561
1996	675,816	193,037	868,853	9,866	858,987
1997	627,032	212,171	839,203	9,967	829,236
1998	680,853	240,409	921,262	9,319	911,943

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF KING CRAB, 1989-98
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (1)	Total supply
----- Thousand pounds -----					
1989	26,391	5,150	31,541	(2) 13,196	18,345
1990	33,917	4,925	38,842	(2) 19,486	19,356
1991	28,140	7,087	35,227	15,320	19,907
1992	19,056	11,958	31,014	16,241	14,773
1993	24,732	7,395	32,127	24,372	7,755
1994	11,960	15,035	26,995	15,013	11,982
1995	14,673	18,360	33,033	11,847	21,186
1996	21,000	26,533	47,533	17,650	29,883
1997	18,027	39,666	57,693	12,516	45,177
1998	24,122	51,655	75,777	13,575	62,202

(1) Imports, exports, foreign exports converted to round (live) weight by using these conversion factors: frozen, 1.75; meat, 4.50; and canned, 5.33. (2) Estimated, based on available foreign import data.

U.S. SUPPLY OF SNOW (TANNER) CRABS, 1989-98
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
----- Thousand pounds -----					
1989	164,643	3,927	168,570	(3) 111,028	57,542
1990	213,395	10,772	224,167	(3) 187,069	37,098
1991	357,122	19,091	376,213	(3) 316,162	60,051
1992	350,039	18,882	368,921	281,214	87,707
1993	255,733	31,224	286,957	220,618	66,339
1994	159,574	27,446	187,020	147,006	40,014
1995	80,817	20,969	101,786	59,805	41,981
1996	67,867	28,336	96,203	50,509	45,694
1997	118,898	41,959	160,857	50,604	110,253
1998	251,831	60,166	311,997	58,366	253,631

(1) Converted to round (live) weight by multiplying fresh and frozen by 1.50; meat, 4.50; and canned, 5.00. (2) Domestic merchandise converted to round (live) weight by multiplying frozen weight by 2.13 (believed to be mostly sections); meat, 4.50; and canned, 5.33. Foreign exports converted using the same factors as imports. (3) Estimated, based on available foreign import data.

U.S. SUPPLY OF CANNED CRABMEAT, 1989-98
(Canned weight)

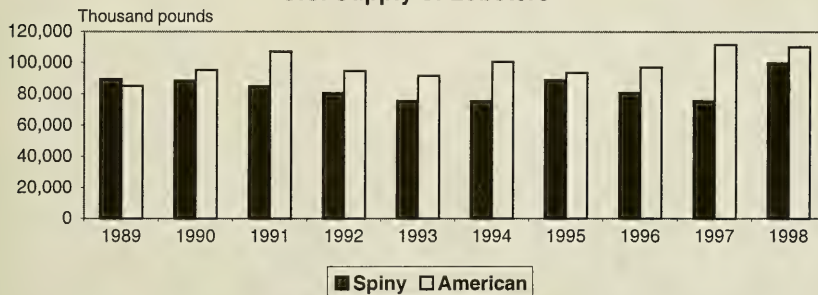
Year	U.S. pack	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1989	504	8,280	8,784	930	7,854
1990	695	8,563	9,258	434	8,824
1991	77	11,385	11,462	525	10,937
1992	99	9,577	9,676	789	8,887
1993	70	9,817	9,887	668	9,219
1994	17	9,852	9,869	511	9,358
1995	65	12,441	12,506	276	12,230
1996	93	12,773	12,866	337	12,529
1997	83	15,871	15,954	608	15,346
1998	78	22,020	22,098	558	21,540

U.S. SUPPLY OF AMERICAN LOBSTERS, 1989-98
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
----- Thousand pounds -----					
1989	52,926	42,530	95,456	10,310	85,146
1990	61,017	49,592	110,609	15,274	95,335
1991	63,337	65,381	128,718	21,485	107,233
1992	55,841	59,335	115,176	20,332	94,844
1993	56,513	55,570	112,083	20,354	91,729
1994	66,416	65,949	132,365	31,646	100,719
1995	66,406	62,923	129,329	35,587	93,742
1996	71,641	65,379	137,020	39,919	97,101
1997	83,921	73,033	156,954	45,262	111,692
1998	79,642	73,601	153,243	42,874	110,369

(1) Only imports from Canada and St. Pierre and Miquelon are considered American lobster and were converted to round (live) by using these conversion factors: 1.00, Whole; 4.50, meat; and 4.64, canned. (2) Domestic exports converted to live weight by 1.00, whole; 4.00, meat; and 4.50, canned. Foreign exports converted using import factors.

U.S. Supply of Lobsters



U.S. SUPPLY OF SPINY LOBSTERS, 1989-98
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
----- Thousand pounds -----					
1989	8,125	87,793	95,918	6,373	89,545
1990	7,120	88,426	95,546	6,948	88,598
1991	7,096	81,332	88,428	3,388	85,040
1992	4,872	77,848	82,720	2,001	80,719
1993	6,076	70,884	76,960	1,306	75,654
1994	8,104	68,787	76,891	1,304	75,587
1995	7,123	86,900	94,023	5,035	88,988
1996	8,308	75,595	83,903	3,033	80,870
1997	7,240	74,120	81,360	5,842	75,518
1998	5,935	95,801	101,736	1,802	99,934

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 3.00, tails; 4.35 other, and 4.50 canned. (2) Domestic exports converted to round weight by using: 1.00, whole; 3.00, tails; 4.00, other, 4.50 canned. Foreign exports converted using import factors.

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF CLAMS, 1989-98
(Meat weight)

Year	U.S. commercial landings (1)	Imports (2)	Total	Exports	Total supply
----- Thousand pounds -----					
1989	138,166	13,254	151,420	1,863	149,557
1990	139,198	15,830	155,028	2,961	152,067
1991	134,243	12,291	146,534	2,948	143,586
1992	142,449	14,262	156,711	1,662	155,049
1993	147,752	9,579	157,331	1,809	155,522
1994	131,427	15,507	146,934	2,617	144,317
1995	134,224	12,645	146,869	2,853	144,016
1996	123,239	14,340	137,579	3,448	134,131
1997	114,180	13,184	127,364	3,651	123,713
1998	107,959	15,666	123,625	4,318	119,307

(1) For specific breakout see table on page 1.

(2) Imports and exports were converted to meat weight by using these conversion factors: 0.40 in shell or shucked; 0.30, canned chowder and juice; and 0.93, other.

U.S. SUPPLY OF OYSTERS, 1989-98
(Meat weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports	Total supply
----- Thousand pounds -----					
1989	29,250	37,662	66,912	1,090	65,822
1990	29,193	27,546	56,739	1,004	55,735
1991	31,859	30,547	62,406	739	61,667
1992	36,156	26,529	62,685	797	61,888
1993	33,575	28,244	61,819	1,131	60,688
1994	38,086	24,694	62,780	1,988	60,792
1995	40,380	24,200	64,580	1,908	62,672
1996	38,007	21,708	59,715	1,648	58,067
1997	39,652	20,533	60,185	2,191	57,994
1998	33,538	29,575	63,113	1,877	61,236

(1) Imports and exports were converted to meat weight by using these conversion factors: 0.93, canned; 3.12, canned smoked; and 0.75, other. (2) Not reported.

U.S. SUPPLY OF SCALLOPS, 1989-98
(Meat weight)

Year	U.S. commercial landings (1)	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1989	40,611	40,874	81,485	2,498	78,987
1990	41,591	39,839	81,430	7,099	74,331
1991	39,740	29,528	69,268	7,083	62,185
1992	33,884	38,682	72,566	3,589	68,977
1993	18,638	51,973	70,611	4,147	66,464
1994	25,469	56,676	82,145	5,990	76,155
1995	19,526	48,331	67,857	5,926	61,931
1996	18,197	58,686	76,883	6,191	70,692
1997	15,474	60,146	75,620	9,861	65,759
1998	13,166	52,445	65,611	7,306	58,305

(1) For specific breakout see table on page 1.

U.S. SUPPLY OF ALL FORMS OF SHRIMP, 1989-98
(Heads-off weight)

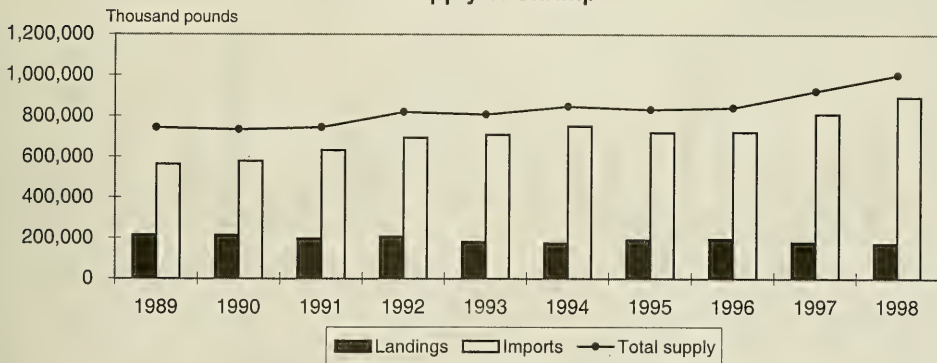
Year	U.S. commercial landings (1)	Imports (2)	Total	Exports (3)	Total supply
----- Thousand pounds -----					
1989	215,825	563,523	779,348	36,056	743,292
1990	213,899	579,427	793,326	59,683	733,643
1991	198,115	632,775	830,890	87,186	743,704
1992	207,086	694,254	901,340	81,604	819,736
1993	180,687	708,683	889,370	81,447	807,923
1994	174,969	749,993	924,962	77,755	847,207
1995	190,208	719,463	909,671	77,677	831,994
1996	195,902	720,852	916,754	75,130	841,624
1997	179,084	810,696	989,780	66,674	923,106
1998	173,304	893,578	1,066,882	65,302	1,001,580

(1) Commercial landings were converted to heads-off weight by using these conversion factors: South Atlantic and Gulf, 0.629; and New England, Pacific and other, 0.57.

(2) Imports were converted to heads-off weight by using these conversion factors: breaded, 0.63; shell-on, 1.00; peeled raw, 1.28; canned, 2.52; and other, 2.40.

(3) Exports were converted to heads-off weight by using these conversion factors: domestic fresh and frozen, 1.18; canned, 2.02; other, 2.40; foreign--fresh and frozen, 1.00; canned, 2.52; and other, 2.40.

U.S. Supply of Shrimp



U.S. SUPPLY OF CANNED SHRIMP, 1989-98
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1989	2,623	11,315	13,938	2,128	11,810
1990	710	9,735	10,445	2,670	7,775
1991	632	9,361	9,993	2,352	7,641
1992	640	9,273	9,913	1,931	7,982
1993	658	8,170	8,828	2,557	6,271
1994	463	6,314	6,777	1,841	4,936
1995	912	6,570	7,482	3,250	4,232
1996	819	3,563	4,382	2,665	1,717
1997	1,168	3,620	4,788	1,470	3,318
1998	194	3,406	3,600	1,660	1,940

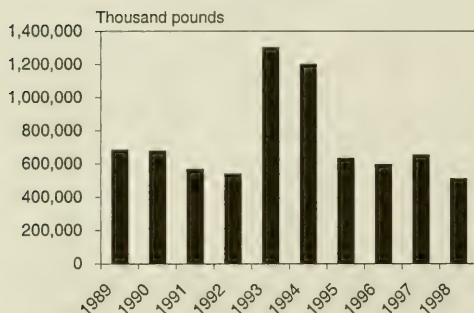
SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF FISH MEAL, 1989-99
(Product weight)

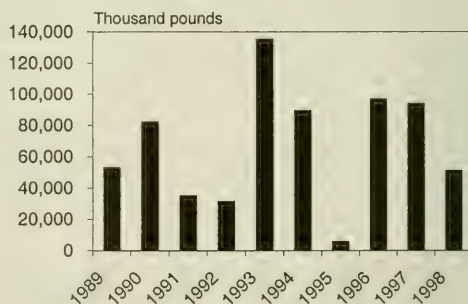
Year	U.S. production (1)	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1989	618,382	171,112	789,494	107,350	682,144
1990	577,498	239,426	816,924	141,888	675,036
1991	612,716	158,916	771,632	206,320	565,312
1992	644,512	150,911	795,423	258,511	536,912
1993	750,744	760,664	1,511,408	212,859	1,298,549
1994	807,833	548,288	1,356,121	159,937	1,196,184
1995	667,240	139,101	806,341	176,981	629,360
1996	643,124	135,561	778,685	186,412	592,273
1997	724,668	142,049	866,717	216,289	650,428
1998	592,552	125,404	717,956	210,658	507,298

(1) Includes shellfish meal.

U.S. Supply of Fish Meal



U.S. Supply of Fish Oils

U.S. SUPPLY OF FISH OILS, 1989-98
(Product weight)

Year	U.S. production	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1989	225,478	25,449	250,927	198,009	52,918
1990	281,949	36,702	318,651	236,589	82,062
1991	267,345	21,828	289,173	254,525	34,648
1992	184,725	23,772	208,497	177,444	31,053
1993	293,452	26,052	319,504	184,488	135,016
1994	291,189	40,642	331,831	242,788	89,043
1995	241,941	23,913	265,854	260,394	5,460
1996	248,399	35,622	284,021	187,294	96,727
1997	283,379	25,622	309,001	215,255	93,746
1998	223,149	24,213	247,362	196,664	50,698

The NMFS calculation of per capita consumption is based on a "disappearance" model. The total U.S. supply of imports and landings is converted to edible weight and decreases in supply such as exports and inventories are subtracted out. The remaining total is divided by a population value to estimate per capita consumption. Data for the model are derived primarily from secondary sources and are subject to incomplete reporting; changes in source data or invalid model assumptions may each have a significant effect on the resulting calculation.

U.S. per capita consumption of fish and shellfish was 14.9 pounds (edible meat) in 1998. This total was 0.3 pounds more than the 14.6 pounds consumed in 1997. Per capita consumption of fresh and frozen products was 10.2 pounds, 0.3 pound more than 1997.

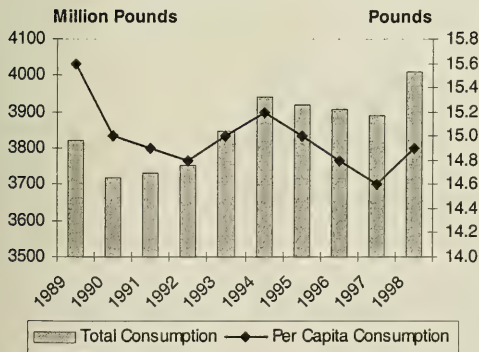
Fresh and frozen finfish accounted for 5.8 pounds while fresh and frozen shellfish consumption was 4.4 pounds per capita. The fresh and frozen finfish includes approximately 1.0 pound of farm raised catfish.

Consumption of canned fishery products was 4.4 pounds per capita in 1998, the same as 1997. Cured fish accounted for 0.3 pound per capita, the same as in previous years. Imports of edible seafood made up 63 percent of the consumption.

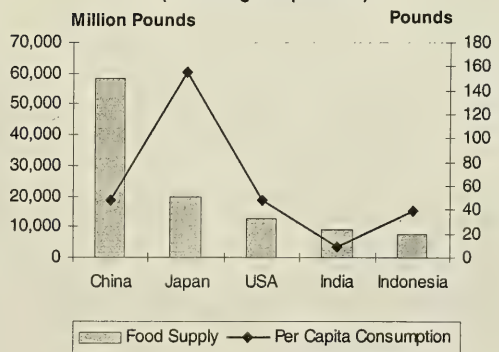
PER CAPITA USE. Per capita use is based on the supply of fishery products, both edible and non-edible (industrial), on a round-weight equivalent basis without considering beginning or ending stocks, defense purchases, or exports. The per capita use of all edible and industrial fishery products in 1998 was 62.5 pounds, down 1.4 pounds compared with 1997.

WORLD CONSUMPTION. The FAO calculation for apparent consumption is based on a disappearance model. The three year average considers, on a round weight equivalent basis, a countries landings, imports, and exports. The 1994-96 data indicates that the United States ranks as the third largest consumer of seafood in the world.

U.S. Consumption 1989 - 1998
(Edible Meat Weight)



Fish and Fishery Products, Apparent Consumption Average 1994 - 1996
(Live Weight Equivalent)



PER CAPITA

U.S. CONSUMPTION

Annual per capita consumption of seafood products represents the pounds of edible meat consumed domestically-caught and consumed from domestically-caught and imported fish and shellfish adjusted for beginning and ending inventories, and exports, divided by the civilian population of the United States as of July 1 of each year.

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1910-98

Year	Civilian resident population July 1 (1)	Per capita consumption			
		Fresh and frozen (2)	Canned (3)	Cured (4)	Total
	<u>Million persons</u>	-----Pounds, edible meat-----			
1910	92.2	4.5	2.8	3.9	11.2
1920	106.5	6.3	3.2	2.3	11.8
1930	122.9	5.8	3.4	1.0	10.2
1940	132.1	5.7	4.6	0.7	11.0
1950	150.8	6.3	4.9	0.6	11.8
1960	178.1	5.7	4.0	0.6	10.3
1970	201.9	6.9	4.5	0.4	11.8
1980	225.6	7.9	4.3	0.3	12.5
1981	227.8	7.8	4.6	0.3	12.7
1982	230.0	7.9	4.3	0.3	12.5
1983	232.1	8.4	4.7	0.3	13.4
1984	234.1	9.0	4.9	0.3	14.2
1985	236.2	9.8	5.0	0.3	15.1
1986	238.4	9.8	5.4	0.3	15.5
1987	240.6	10.7	5.2	0.3	16.2
1988	242.8	10.0	4.9	0.3	15.2
1989	245.1	10.2	5.1	0.3	15.6
1990	247.8	9.6	5.1	0.3	15.0
1991	250.5	9.7	4.9	0.3	14.9
1992	253.5	9.9	4.6	0.3	14.8
1993	256.4	10.2	4.5	0.3	15.0
1994	259.2	10.4	4.5	0.3	15.2
1995	261.4	10.0	4.7	0.3	15.0
1996	264.0	10.0	4.5	0.3	14.8
1997	266.4	9.9	4.4	0.3	14.6
1998	269.1	10.2	4.4	0.3	14.9

(1) Resident population for 1910 and 1920 and civilian resident population for 1930 to date.

(2) Fresh and frozen fish consumption for 1910 and 1920 is estimated. Beginning in 1973, data include consumption of artificially cultivated catfish.

(3) Canned fish consumption for 1920 is estimated. Beginning in 1921, it is based on production reports, packer stocks, and foreign trade statistics for individual years.

(4) Cured fish consumption for 1910 and 1920 is estimated.

*Record years: Fresh and Frozen--10.7 lb, 1987; Canned--5.8, 1936; Cured--4.0, 1909; and Total--16.2 lb, 1987.

U.S. CONSUMPTION

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1980-98

Year	Salmon	Sardines	Tuna	Shellfish	Other	Total
Pounds						
1980	0.5	0.3	3.0	0.4	0.1	4.3
1981	0.5	0.4	3.0	0.4	0.3	4.6
1982	0.5	0.3	2.8	0.4	0.3	4.3
1983	0.5	0.2	3.2	0.4	0.4	4.7
1984	0.6	0.2	3.2	0.4	0.5	4.9
1985	0.5	0.3	3.3	0.5	0.4	5.0
1986	0.5	0.3	3.6	0.5	0.5	5.4
1987	0.4	0.3	3.5	0.5	0.5	5.2
1988	0.3	0.3	3.6	0.4	0.3	4.9
1989	0.3	0.3	3.9	0.4	0.2	5.1
1990	0.4	0.3	3.7	0.3	0.4	5.1
1991	0.5	0.2	3.6	0.4	0.2	4.9
1992	0.5	0.2	3.5	0.3	0.1	4.6
1993	0.4	0.2	3.5	0.3	0.1	4.5
1994	0.4	0.2	3.3	0.3	0.3	4.5
1995	0.5	0.2	3.4	0.3	0.3	4.7
1996	0.5	0.2	3.2	0.3	0.3	4.5
1997	0.4	0.2	3.1	0.3	0.4	4.4
1998	0.3	0.2	3.4	0.3	0.2	4.4

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1980-98

Year	Fillets and steaks (1)	Sticks and portions Pounds (2)	Shrimp all preparation
1980	2.4	2.0	1.4
1981	2.4	1.8	1.5
1982	2.5	1.7	1.5
1983	2.7	1.8	1.7
1984	3.0	1.8	1.9
1985	3.2	1.8	2.0
1986	3.4	1.8	2.2
1987	* 3.6	1.7	2.4
1988	3.2	1.5	2.4
1989	3.1	1.5	2.3
1990	3.1	1.5	2.2
1991	3.0	1.2	2.4
1992	2.9	0.9	2.5
1993	2.9	1.0	2.5
1994	3.1	0.9	2.6
1995	2.9	1.2	2.5
1996	3.0	1.0	2.5
1997	3.0	1.0	2.7
1998	3.2	0.9	* 2.8

(1) Data include groundfish and other species. Data do not include blocks, but fillets could be made into blocks from which sticks and portions could be produced.

(2) Product weight of fillets and steaks and sticks and portions, edible (meat) weight of shrimp.

*Record.

PER CAPITA WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1994-96 AVERAGE

Region and Country	Estimated live weight equivalent		Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds		Kilograms	Pounds
North America:			Europe - Continued:		
Canada	22.1	48.7	Bosnia-Herzegovina	1.3	2.9
Greenland	87.1	192.0	Bulgaria	3.4	7.5
St. Pierre and Miquelon	50.5	111.3	Croatia	3.1	6.8
United States	21.6	47.6	Czech Republic	8.9	19.6
			Denmark	23.7	52.2
			Estonia	34.4	75.8
			Faeroe Island	85.7	188.9
			Finland	32.7	72.1
			France	28.7	63.3
			Georgia	1.2	2.6
			Germany	12.9	28.4
			Greece	25.1	55.3
			Hungary	3.9	8.6
			Iceland	91.0	200.6
			Ireland	19.2	42.3
			Italy	21.6	47.6
			Kazakhstan	2.5	5.5
			Kyrgyzstan	0.2	0.4
			Latvia	29.4	64.8
			Lithuania	22.2	48.9
			Macedonia	4.3	9.5
			Malta	24.2	53.4
			Moldova	1.7	3.7
			Netherlands	14.2	31.3
			Norway	48.5	106.9
			Poland	14.6	32.2
			Portugal	59.7	131.6
			Romania	2.5	5.5
			Russian Federation	16.1	35.5
			Slovakia	7.7	17.0
			Slovenia	6.7	14.8
			Spain	36.7	80.9
			Sweden	28.3	62.4
			Switzerland	10.2	30.4
			Tajikistan	0.8	0.4
			Turkmenistan	2.8	6.2
			Ukraine	5.3	11.7
			United Kingdom	19.1	42.1
			Uzbekistan	0.6	1.3
			Yugoslavia	1.5	3.3
Caribbean:			Near East:		
Antigua	25.8	56.9	Afghanistan	0.1	0.2
Aruba	7.8	17.2	Bahrain	16.5	36.4
Bahamas	22.6	49.8	Cyprus	21.6	47.6
Barbados	27.9	61.5	Egypt	7.3	16.1
Bermuda	39.9	88.0	Iran	5.4	11.9
Cayman Islands	34.1	75.2	Iraq	1.1	2.4
Cuba	11.6	25.6	Israel	21.3	47.0
Dominica	28.9	63.7	Jordan	4.7	10.4
Dominican Republic	8.2	18.1	Kuwait	12.6	27.8
Grenada	24.2	53.4	Lebanon	5.3	11.7
Guadeloupe	46.5	102.5	Libya	6.3	13.9
Haiti	2.6	5.7	Oman	23.6	52.0
Jamaica	19.6	43.2	Qatar	14.1	31.1
Martinique	46.9	103.4	Saudi Arabia	6.0	13.2
Netherland Antilles	17.2	37.9	Sudan	1.7	3.7
Saint Lucia	18.8	41.4	Syria	0.8	1.8
St. Vincent	14.8	32.6	Turkey	8.9	19.6
Trinidad-Tobago	11.4	25.1	United Arab Emirates	25.2	55.6
Turks & Caicos	41.2	90.8	Yemen Republic	6.8	15.0
Latin America:					
Argentina	9.2	20.3			
Belize	6.6	14.6			
Bolivia	1.4	3.1			
Brazil	7.1	15.7			
Chile	24.0	52.9			
Colombia	3.8	8.4			
Costa Rica	6.1	13.4			
Ecuador	7.0	15.4			
El Salvador	2.5	5.5			
French Guiana	36.1	79.6			
Guatemala	1.0	2.2			
Guyana	48.5	106.9			
Honduras	2.4	5.3			
Mexico	10.3	22.7			
Nicaragua	1.2	2.6			
Panama	15.9	35.1			
Paraguay	4.4	9.7			
Peru	23.5	51.8			
Suriname	28.8	63.5			
Uruguay	7.0	15.4			
Venezuela	19.3	42.5			
Europe:					
Albania	1.3	2.9			
Armenia	1.1	2.4			
Austria	10.3	22.7			
Azerbaijan	1.6	3.5			
Belarus	1.1	2.4			
Belgium and Luxembourg	19.5	43.0			

See note at end of table.

(Continued on next page)

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD,
BY REGION AND COUNTRY, 1994-96 AVERAGE

Region and Country	Estimated live weight equivalent		Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds		Kilograms	Pounds
Far East:			Africa - Continued:		
Bangladesh	9.3	20.5	Ivory Coast	12.1	26.7
Brunei	28.8	63.5	Kenya	5.8	12.8
Burma	16.6	36.6	Lesotho	2.9	6.4
Cambodia	9.2	20.3	Liberia	4.6	10.1
China	22.0	48.5	Madagascar	6.3	13.9
Hong Kong	56.8	125.2	Malawi	5.8	12.8
India	4.4	9.7	Mali	11.1	24.5
Indonesia	17.6	38.8	Mauritania	16.1	35.5
Japan	70.7	155.9	Mauritius	22.5	49.6
Laos	8.9	19.6	Morocco	7.6	16.8
Macao	38.8	85.5	Mozambique	1.7	3.7
Maldives	175.5	386.9	Namibia	11.3	24.9
Malaysia	54.6	60.6	Niger	0.5	1.1
Mongolia	0.1	0.2	Nigeria	6.4	14.1
Nepal	1.0	2.2	Reunion	28.1	61.9
North Korea	19.5	43.0	Rwanda	0.7	1.5
Pakistan	2.0	4.4	Sao Tome	24.2	53.4
Philippines	33.0	72.8	Senegal	30.7	67.7
Singapore	31.2	68.8	Seychelles	62.8	138.4
South Korea	51.6	113.8	Sierra Leone	14.5	32.0
Sri Lanka	17.2	37.9	Somalia	1.5	3.3
Taiwan	35.8	78.9	South Africa	9.3	20.5
Thailand	31.4	69.2	St. Helena	74.5	164.2
Vietnam	12.5	27.6	Swaziland	0.2	0.4
			Tanzania	10.6	23.4
			Togo	12.9	28.4
			Tunisia	9.5	20.9
			Uganda	10.0	22.0
			Zambia	8.6	19.0
			Zimbabwe	3.5	7.7
Africa:			Oceania:		
Algeria	4.3	9.5	Australia	18.7	41.2
Angola	7.8	17.2	Cook Island	61.6	135.8
Benin	9.4	20.7	Fiji	34.9	76.9
Botswana	5.1	11.2	French Polynesia	56.6	124.8
Burkina	1.3	2.9	Kiribati	74.5	164.2
Burundi	3.6	7.9	New Caledonia	20.9	46.1
Cameroon	8.7	19.2	New Zealand	22.2	48.9
Cape Verde	17.9	39.5	Papua New Guinea	12.7	28.0
Central African Rep	4.2	9.3	Solomon Islands	39.4	86.9
Chad	6.0	13.2	Tonga	31.8	70.1
Comoros	23.0	50.7	Vanuatu	27.3	60.2
Congo (Brazzaville)	23.6	52.0	Western Samoa	39.5	87.1
Congo (Kinshasa)	5.7	12.6			
Djibouti	1.6	3.5			
Equatorial Guinea	22.6	49.8			
Eritrea	1.1	2.4			
Ethiopia	0.1	0.2			
Gabon	43.0	94.8			
Gambia	17.8	39.2			
Ghana	18.7	41.2			
Guinea	10.0	22.0			
Guinea-Bissau	5.1	11.2			
			World	15.2	33.5

Note:--Data for most countries are tentative. Aquatic plants are included where applicable.

Source:--Food and Agriculture Organization of the United Nations (FAO)

PER CAPITA

U.S. USE

Per capita use of commercial fish and shellfish is based on the supply of fishery products, both edible and nonedible (industrial), on a round weight equivalent basis, without considering the beginning or ending stocks, defense purchases, or exports.

Per capita use figures are not comparable with per capita consumption data. Per capita consumption figures represent edible (for human use) meat weight consumption rather than round weight consumption. In addition, per capita consumption includes allowances for beginning and ending stocks and exports, whereas the use does not include such allowances.

Per capita use is derived by using total population including U.S. Armed Forces overseas. The per capita consumption is derived by using civilian resident population.

U.S. ANNUAL PER CAPITA USE OF COMMERCIAL FISH AND SHELLFISH, 1960-98 (1)

Year	Total population including armed forces overseas July 1	U.S. supply	Per capita utilization		
			Commercial landings	Imports	Total
	<u>Million persons</u>	<u>Million pounds</u>	----- Pounds -----		
1960	180.7	8,223	27.3	18.2	45.5
1961	183.7	9,570	28.2	23.9	52.1
1962	186.5	10,408	28.7	27.1	55.8
1963	189.2	11,434	25.6	34.8	60.4
1964	191.9	12,031	23.7	39.0	62.7
1965	194.3	10,535	24.6	29.6	54.2
1966	196.6	12,469	22.2	41.2	63.4
1967	198.7	13,991	20.4	50.0	70.4
1968	200.7	17,381	20.7	65.9	86.6
1969	202.7	11,847	21.4	37.0	58.4
1970	205.1	11,474	24.0	31.9	55.9
1971	207.7	11,804	24.1	32.7	56.8
1972	209.9	13,849	22.9	43.1	66.0
1973	211.9	10,378	22.9	26.1	49.0
1974	213.9	9,875	23.2	23.0	46.2
1975	216.0	10,164	22.6	24.5	47.1
1976	218.0	11,593	24.7	28.5	53.2
1977	220.2	10,652	23.9	24.4	48.3
1978	222.6	11,509	27.1	24.6	51.7
1979	225.1	11,831	27.9	24.7	52.6
1980	227.7	11,357	28.5	21.4	49.9
1981	230.0	11,353	26.0	23.4	49.4
1982	232.2	12,011	27.4	24.3	51.7
1983	234.3	12,352	27.5	25.2	52.7
1984	236.3	12,552	27.3	25.8	53.1
1985	238.5	15,150	26.2	37.3	63.5
1986	240.7	14,368	25.1	34.6	59.7
1987	242.8	15,744	28.4	36.4	64.8
1988	245.0	14,628	29.3	30.4	59.7
1989	247.3	15,485	34.2	28.4	62.6
1990	249.9	16,349	37.6	27.8	65.4
1991	252.7	16,363	37.5	27.3	64.8
1992	255.5	16,106	37.7	25.3	63.0
1993	258.2	20,334	40.6	38.2	78.8
1994	260.7	19,309	40.1	34.0	74.1
1995	263.0	16,484	37.2	25.5	62.7
1996	265.3	16,474	36.1	26.0	62.1
1997	268.2	17,131	36.7	27.2	63.9
1998	270.6	16,897	34.0	28.5	62.5

(1) Data include U.S. commercial landings and imports of both edible and nonedible (industrial) fishery products on a round weight basis. "Total supply" is not adjusted for beginning and ending stocks, defense purchases, or exports.

SUMMARY OF 1998 VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR COMMERCIAL MARINE FISHERY PRODUCTS IN THE UNITED STATES (1)

Sector or type of activity	Purchase of fishery inputs	Mark-up of fishery inputs	Total mark-up within sector	Value added as percent of total mark-up	Value added within sector	Value of sales by sector	Value added contribution	Offshore fleet & exported fishery products
	Thousand Dollars	Percentage of Fishery Inputs	Thousand Dollars	Percentage	Thousand Dollars	Thousand Dollars	Percentage of GNP Contribution	Thousand Dollars
Domestic Harvest:								
Edible	-	100.0	\$2,989,801	62.8	\$1,878,654	\$2,989,801	7.4	-
Industrial	-	100.0	\$103,836	61.2	\$63,564	\$103,836	0.2	-
Harvest not landed in U.S.	-	100.0	\$165,888	68.9	\$114,322	\$165,888	0.4	\$165,888
Imports, Unprocessed	\$3,625,726	-	-	-	-	\$3,625,726	-	-
Exports, Unprocessed	-	-	-	-	-	-	-	\$741,084
Primary Wholesale and Processing	\$5,978,279	96.9	\$5,795,554	60.4	\$3,500,499	\$11,773,833	13.8	-
Imports, Processed	\$4,700,045	-	-	-	-	\$4,700,045	-	-
Exports, Processed	-	-	-	-	-	-	-	\$1,618,956
Secondary Wholesale and Processing:								
Edible	\$14,700,749	62.7	\$9,218,854	28.0	\$2,585,293	\$23,919,603	10.2	-
Industrial	\$154,174	62.7	\$96,683	28.0	\$27,113	\$250,856	0.1	-
Retail Trade from Food Service	\$11,476,092	182.4	\$20,933,093	69.8	\$14,603,579	\$32,409,185	57.4	-
Retail Trade from Stores	\$12,443,510	33.4	\$4,158,905	64.2	\$2,671,329	\$16,602,415	10.5	-
TOTAL U.S. VALUE ADDED ACTIVITY:					\$25,444,353		100.0	
CONSUMERS EXPENDITURES (& WHOLESALE PURCHASES OF INDUSTRIAL PRODUCTS) FOR FISHERY PRODUCTS:					\$49,262,457			

(1) Includes industrial products and landings by U.S.-flag vessels at U.S. ports, foreign ports, and transfers to internal water processing vessels.

Note:-- The table reports the contribution of commercial marine fishing to the national economy as measured by margin, value added, and sales. These measures are consistent with the Bureau of the Census definitions.

Margin or mark-up is the difference between the price paid for the product by the consumer or wholesale purchaser and the dockside or wholesale value for an equivalent weight of the product. (It is assumed that fishermen catch their fish without paying purchase price and therefore the entire dockside or exvessel price is considered margin.) Value added is a measure of the factors added to the total worth of a product at each stage of the production process. It is defined as the gross receipts of firms minus the cost of purchased goods and services needed to fabricate the product. Gross National Products (GNP) is equal to the sum of the value added of all economic entities in the economy. Value added within a sector represents that sector's contribution to GNP.

Value added includes wages, salaries, interest, depreciation, rent, taxes and profit. Consumer expenditures are the final retail value of seafood products sold through stores and food service outlets plus secondary wholesale and processing of industrial products.

PRICES

The exvessel Price table is an index of changes in the relative dockside value of fish and shellfish sold by fishing vessels. The table indexes the average annual exvessel value (price per pound) received for each species or group to the average price per pound received for the same species or group in the base year 1982.

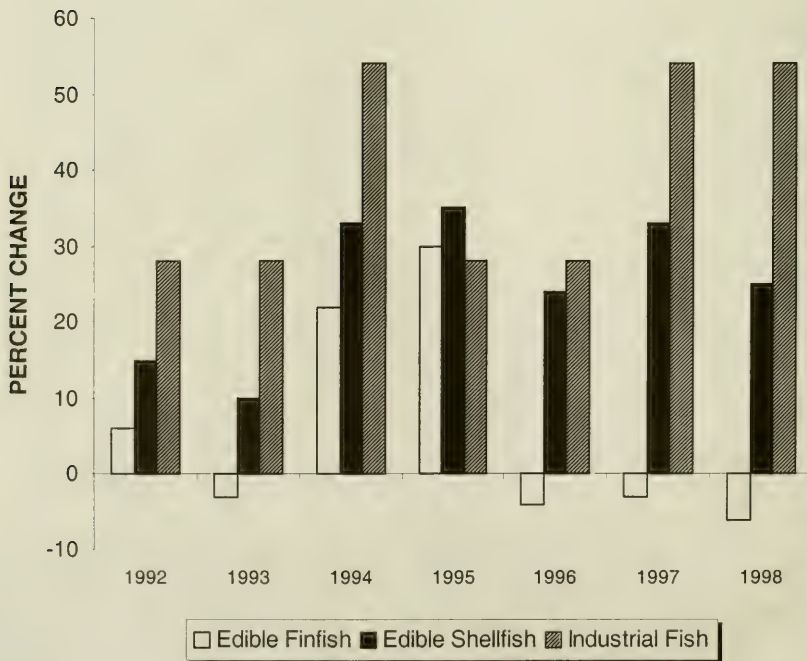
The exvessel price for each year was obtained by dividing total value for each species or group by its total quantity as reported in the U. S. commercial landings tables on pages 1 through 4. The index for each species or group was obtained by multiplying the current annual price by the total quantity caught in 1982 (the base year).

That number was then divided by the 1982 value to obtain the final index:

$$\frac{(100 \times \text{Current price} \times \text{1982 quantity})}{\text{1982 Annual value}} = \text{Index}$$

Each index number measures price changes from the 1982 reference period when the index equaled 100. A species of fish that sold for \$0.75 a pound in 1986 and a \$1.00 a pound in 1982 would have an index of 75 in 1986. In 1998, if the price of the same species increased to \$1.07, the index in 1998 would be 107.

PERCENT CHANGE IN THE EXVESSEL PRICE INDEX, 1992-1998 (CHANGE RELATIVE TO BASE YEAR=1982)



INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY YEARS, 1992-98
(1982=100)

Species	1992 (1)	1993	1994	1995	1996	1997	1998
Groundfish, et al:							
Cod	105	105	92	77	76	84	68
Haddock	219	277	287	277	239	218	253
Pollock:							
Atlantic	297	299	365	412	311	255	294
Alaska	194	194	212	161	160	170	124
Flounders	60	61	80	96	91	63	67
Total groundfish, et al.	108	115	125	125	115	100	99
Halibut	91	115	171	173	199	195	165
Sea herring	86	63	86	126	137	63	46
Salmon:							
Chinook	112	81	76	76	63	70	64
Chum	112	95	58	66	36	49	39
Pink	69	59	73	67	38	52	61
Sockeye	136	80	101	100	94	103	131
Coho	84	74	76	54	48	70	54
Total salmon	113	78	85	82	69	81	90
Swordfish	111	92	107	104	103	91	70
Tuna:							
Albacore	147	132	125	120	130	124	99
Bluefin	477	766	666	954	229	353	295
Skipjack	72	85	127	83	82	93	79
Yellowfin	96	112	205	283	113	126	100
Total tuna	97	117	181	212	105	118	96
Total edible finfish	106	97	122	130	96	97	94
Clams:							
Hard	135	113	105	113	148	163	174
Ocean Quahog	124	128	129	136	142	145	148
Soft	222	233	248	250	205	236	238
Surf	83	88	118	118	115	116	103
Total clams	133	126	133	138	147	159	161
Crabs:							
Blue	183	201	260	284	266	271	271
Dungeness	124	95	145	176	143	210	192
King	139	127	146	104	100	94	80
Snow	60	78	144	237	130	76	54
Total crabs	124	123	166	182	144	135	121
American lobster	125	117	128	141	147	138	138
Oysters	225	183	175	179	214	199	188
Scallops:							
Bay	150	161	49	55	69	111	90
Calico	(2)	(2)	94	124	-	217	(2)
Sea	132	159	138	138	153	179	166
Total scallops	118	141	126	131	129	178	141
Shrimp:							
Gulf and South Atlantic	86	80	110	99	88	106	94
Other	113	128	142	179	148	134	331
Total shrimp	88	82	111	103	91	107	105
Total edible shellfish	115	110	138	135	124	133	125
Total edible fish and shellfish	111	104	131	133	111	117	111
Industrial fish, Menhaden	128	128	154	128	128	154	154
All fish and shellfish	112	105	132	132	112	119	113

(1) Revised.

(2) Confidential data.

EMPLOYMENT, CRAFT, AND PLANTS

ESTIMATED NUMBER OF COMMERCIAL FISHING VESSELS (1)
AND FISHING BOATS (2) BY REGION AND STATE, 1996 - 1997

Area and State	1996			1997		
	Vessels	Boats	Total	Vessels	Boats	Total
Northeast:						
Connecticut	168	409	577	225	377	602
Delaware	161	NA	161	175	NA	175
Maine	1,773	5,454	7,227	1,733	5,828	7,561
Maryland (3)	33	NA	33	33	NA	33
Massachusetts	790	4,525	5,315	737	4,510	5,247
New Hampshire	132	474	606	128	483	611
New Jersey	360	1,167	1,527	420	1,181	1,601
New York (4)	693	2,936	3,629	689	2,541	3,230
Rhode Island	299	2,538	2,837	308	2,469	2,777
Virginia (3)	122	NA	122	122	NA	122
South Atlantic and Gulf:						
North Carolina	814	NA	814	835	NA	835
South Carolina	501	NA	501	652	NA	652
Georgia	349	NA	349	351	NA	351
Florida	2,531	9,425	11,956	2,437	6,648	9,085
Alabama	378	720	1,098	359	1,320	1,679
Mississippi	438	874	1,312	591	856	1,447
Louisiana	2,839	11,883	14,722	2,650	10,987	13,637
Texas	NA	NA	NA	NA	NA	NA
West Coast:						
Alaska	7,044	9,295	16,339	7,098	9,344	16,442
Washington	1,909	1,292	3,201	1,071	585	1,656
Oregon	860	389	1,249	732	328	1,060
California	1,767	1,483	3,250	1,700	1,421	3,121
Hawaii	2,636	NA	2,636	2,493	NA	2,493
Great Lakes (5)						
Illinois	5	NA	5	5	NA	5
Indiana	NA	NA	NA	NA	NA	NA
Michigan	61	75	136	61	75	136
Minnesota	1	23	24	1	23	24
New York	3	17	20	1	NA	1
Ohio	30	14	44	28	26	54
Pennsylvania	4	2	6	2	1	3
Wisconsin	106	42	148	97	44	141

(1) Vessels are documented craft greater than 5 net registered tons.

(2) Boats are craft less than 5 net registered tons.

(3) Only Federal collected data are available. Inshore data not available.

(4) Excludes vessels and boats in the Great Lakes.

(5) Commercial fishing fleet sizes for the Great Lakes states represent only the number of licenses issued by the State; therefore, may not be an accurate total. Tribal data are not included in his table.

NA -- Data not available separately.

PROCESSORS AND WHOLESALERS: PLANTS, AND EMPLOYMENT, 1997

Area and State	Processing			Wholesale (1)			Total		
	Plants	Employment average		Plants	Employment average		Plants	Employment average	
		Season	Year		Season	Year		Season	Year
New England:									
Maine	54	1,828	1,788	223	(2)	1,516	277	(3)	3,284
New Hampshire	9	303	301	29	(2)	194	38	(3)	495
Massachusetts	73	2,653	2,647	303	(2)	2,473	376	(3)	5,120
Rhode Island	19	389	384	58	(2)	360	77	(3)	744
Connecticut	4	68	68	37	(2)	279	41	(3)	347
Total	159	5,241	5,168	650	(2)	4,822	809	(3)	9,990
Mid-Atlantic:									
New York	10	193	193	340	(2)	2,354	350	(3)	2,547
New Jersey	16	1,079	1,078	138	(2)	909	154	(3)	1,987
Pennsylvania	6	1,015	1,015	60	(2)	742	66	(3)	1,757
Delaware	(4)	(4)	(4)	(4)	(2)	(4)	(4)	(3)	(4)
District of Columbia	-	-	-	6	(2)	87	6	(3)	87
Maryland	36	1,349	1,234	90	(2)	778	126	(3)	2,012
Virginia	45	1,858	1,828	87	(2)	603	132	(3)	2,431
Total	113	5,494	5,348	721	(2)	5,473	834	(3)	10,821
South Atlantic:									
North Carolina	52	1,454	1,451	100	(2)	893	152	(3)	2,344
South Carolina	12	193	191	27	(2)	206	39	(3)	397
Georgia	10	1,149	1,149	56	(2)	534	66	(3)	1,663
Florida, East Coast	28	816	816	(5)	(2)	(5)	28	(3)	816
Total	102	3,612	3,607	183	(2)	1,633	285	(3)	5,240
Gulf:									
Florida, West Coast	91	2,202	2,192	369	(2)	3,145	460	(3)	5,337
Alabama	84	1,493	1,416	55	(2)	867	139	(3)	2,283
Mississippi	38	916	913	36	(2)	249	74	(3)	1,162
Louisiana	136	3,439	2,998	163	(2)	1,201	299	(3)	4,199
Texas	30	1,356	1,333	117	(2)	1,265	147	(3)	2,598
Total	379	9,406	8,852	740	(2)	6,727	1,119	(3)	15,579
Pacific:									
Alaska	201	9,875	7,652	213	(2)	336	414	(3)	7,988
Washington	96	5,292	3,927	198	(2)	1,711	294	(3)	5,638
Oregon	40	1,466	1,464	23	(2)	322	63	(3)	1,786
California	141	6,975	6,974	393	(2)	4,791	534	(3)	11,765
Total	478	23,608	20,017	827	(2)	7,160	1,305	(3)	27,177
Inland States, Total	38	1,742	1,730	343	(2)	3,642	381	(3)	5,372
Other Areas or States:									
(6), Total	28	8,976	8,976	56	(2)	623	84	(3)	8,976
Grand total	1,297	58,079	53,698	3,520	(2)	29,457	4,817	(3)	83,155

(1) Data are based on Standard Industrial Classification 5146 as reported to the Bureau of Labor Statistics.

(2) Not reported, (3) Can not be calculated, (4) Included with Inland States, (5) Included with Florida, West Coast.

(6) Includes American Samoa, Hawaii, and Puerto Rico.

FISHERY PRODUCTS INSPECTION

FISHERY PRODUCTS AND ESTABLISHMENTS INSPECTED IN CALENDAR YEAR, 1998

Region	Edible fishery products						
	Establishment (1)		Amount inspected				
	SIFE (2)	In- plant (3)	Grade A (4)	PUFI (4)	No mark (5)	Lot (6)	Total
	-Average number-		----- Thousand pounds -----				
Northeast	0	105	30,096	176,476	85,543	100,899	393,015
Southeast	0	122	17,491	85,815	56,565	104,518	264,389
West	8	63	22,751	38,858	47,489	114,231	223,328
Total, 1998	8	289	70,338	301,149	189,597	319,648	880,733
Total, 1997	16	318	64,795	373,431	179,891	310,699	928,816

(1) These establishments are inspected under contract and certified as meeting U.S. Department of Commerce (USDC) regulations for construction and maintenance of facilities and equipment processing techniques, and employment practices.

(2) Fish processing establishments approved for sanitation under the Sanitary Inspected Fish Establishment Service (SIFE). Products are not processed under inspection.

(3) Sanitarily inspected fish establishments processing fishery products under USDC inspection. As of December 1998, 89 of these were in the Hazard Analysis Critical Control Point (HACCP) Program.

(4) Products processed under USDC inspection in inspected establishments and labeled with USDC inspection mark as "Processed Under Federal Inspection" (PUFI) and/or "U.S. Grade A."

(5) Products processed under inspection in inspected establishments but bearing no USDC inspection mark.

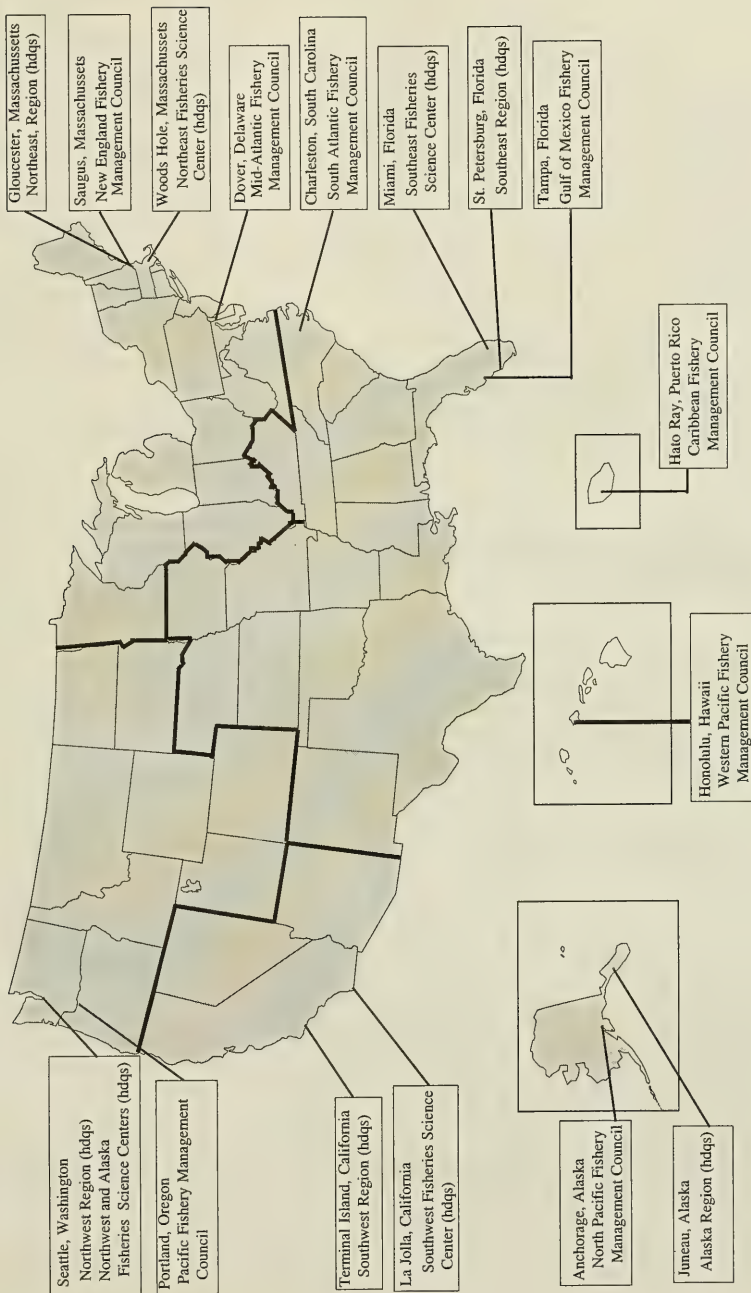
(6) Lot inspected and marked products checked for quality and condition at the time of examination and located in processing plants, warehouses, cold storage facilities, or terminal markets anywhere in the United States.

Note:--Table may not add due to rounding.

Source:--NMFS, Seafood Inspection Division, F/SI.

NMFS Regional Offices NMFS Fisheries Science Centers Regional Fishery Management Councils

Headquarters Locations



THE MAGNUSON-STEVENS FISHERY CONSERVATION AND MANAGEMENT ACT

The Magnuson-Stevens Fishery Conservation and Management Act, Public Law 94-265 as amended (Magnuson-Stevens Act), provides for the conservation and management of fishery resources within the U.S. Exclusive Economic Zone (EEZ). It also provides for fishery management authority over continental shelf resources and anadromous species beyond the EEZ, except when they are found within a foreign nation's territorial sea or fishery conservation zone (or equivalent), to the extent that such sea or zone is recognized by the United States.

The EEZ extends from the seaward boundary of each of the coastal States (generally 3 nautical miles from shore for all but two States) to 200 nautical miles from shore. The seaward boundaries of Texas, Puerto Rico, and the Gulf coast of Florida are 3 marine leagues (9 nautical miles).

GOVERNING INTERNATIONAL FISHERY AGREEMENTS

Under the Magnuson-Stevens Act, the Secretary of State, in cooperation with the Secretary of Commerce, negotiates Governing International Fishery Agreements (GIFAs) with foreign nations requesting to fish within the EEZ. After a GIFA is signed, it is transmitted by the President to the Congress for ratification.

FOREIGN FISHING PERMITS

Title II of the Magnuson-Stevens Act governs foreign fishing in the EEZ. The process applied to foreign fishing has been described in prior issues of this publication. As U.S. fishing capacity grew, foreign participation in directed fisheries, as well as in foreign joint ventures in which U.S. vessels delivered U.S. harvested fish to permitted foreign vessels in the EEZ diminished until, in 1991, foreign vessels no longer were permitted to conduct directed fishing in the EEZ. This marked the achievement of one of the objectives of the Magnuson-Stevens Act, that is, the development

of the U.S. fishing industry to take what were in 1976 underutilized species, and the displacement of directed foreign fishing effort in the EEZ.

As a result of the above, there has been no total allowable level of foreign fishing since 1991, although 15,000 mt of Atlantic mackerel and 40,000 mt of Atlantic herring were available for joint venture fishing in 1998. NMFS continues to maintain certain regulations pertaining to foreign fishing should there be a situation in the future in which allowing limited foreign fishing in an underutilized fishery would be of advantage to the U.S. fishing industry.

FMPs and PMPs

Under the Magnuson-Stevens Act, eight Regional Fishery Management Councils are charged with preparing Fishery Management Plans (FMPs) for the fisheries needing management within their areas of authority. After the Councils prepare FMPs that cover domestic and foreign fishing efforts, the FMPs are submitted to the Secretary of Commerce (Secretary) for approval and implementation. The Department, through NMFS agents and the U.S. Coast Guard, is responsible for enforcing the law and regulations.

The Secretary is empowered to prepare FMPs in the Atlantic and Gulf of Mexico for highly migratory species. Where no FMP exists, Preliminary Fishery Management Plans (PMPs), which only cover foreign fishing efforts, are prepared by the Secretary for each fishery for which a foreign nation requests a permit. The Secretary is also empowered to produce an FMP for any fishery that a Council has not duly produced. In this latter case, the Secretary's FMP covers domestic and foreign fishing.

As of December 31, 1998, three Preliminary Fishery Management Plans (PMPs) were in effect, some of which have been amended since first being implemented.

The Atlantic swordfish, Atlantic sharks, and Atlantic billfish fisheries are currently being managed by the Secretary under the Magnuson-Stevens Act

and the Western Atlantic bluefin tuna fishery is managed under the Magnuson-Stevens Act and the Atlantic Tunas Convention Act.

FISHERY MANAGEMENT PLANS (FMPs)

Under section 304 of the Magnuson-Stevens Act, all Council-prepared FMPs must be reviewed for approval by the Secretary. After FMPs have been approved under section 304 of the Magnuson-Stevens Act, they are implemented by Federal regulations, under section 305 of the Act. As of December 31, 1998, there are 39 FMPs in place. Of these, three are Secretarial FMPs for Atlantic highly migratory species. The 36 FMPs the Councils prepared are listed below. The FMPs are amended by the Councils and the amendments are submitted for approval under the same Secretarial review process as new FMPs. Most of the FMPs listed have been amended since initial implementation. Those marked with a double asterisk (**) were amended in 1998.

Northeast Multispecies
American Lobster
Atlantic Bluefish
Atlantic Coast Red Drum
Atlantic Mackerel, Squid, and Butterfish
Atlantic Salmon
Atlantic Sea Scallops
Atlantic Surf Clams and Ocean Quahogs (**)
Summer Flounder, Scup, and Black Sea
Bass
Gulf and South Atlantic Spiny Lobster

Caribbean Reef Fish
Gulf of Mexico Reef Fish
Gulf of Mexico Corals
South Atlantic Corals
South Atlantic Golden Crab
Caribbean Coral Reef Resources
Gulf of Mexico Shrimp
Gulf of Mexico Stone Crab (**)
Gulf of Mexico Red Drum
Coastal Migratory Pelagics
Caribbean Queen Conch
Caribbean Spiny Lobster
South Atlantic Snapper/Grouper (**)
South Atlantic Shrimp
Northern Anchovy
King and Tanner Crab
Commercial and Recreational Salmon
High Seas Salmon
Pacific Coast Groundfish
Gulf of Alaska Groundfish (**)
Bering Sea and Aleutian Islands
Groundfish (**)
Alaska Scallops (**)
Western Pacific Crustaceans
Western Pacific Precious Corals (**)
Western Pacific Bottomfish and Seamount
Groundfish
Western Pacific Pelagics

In 1998, NMFS published 869 documents in the Federal Register which affected domestic fishing issues and either proposed or implemented fishery management actions (i.e., FMP and amendments). The documents published include hearing, meeting, correction, and proposed and final rule documents.

THE MAGNUSON-STEVENS FISHERY CONSERVATION AND MANAGEMENT ACT

REGIONAL FISHERY MANAGEMENT COUNCILS

<u>Councils</u>	<u>Constituent States</u>	<u>Telephone Number</u>	<u>Executive Directors and Addresses</u>
NEW ENGLAND	(Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut)	781-231-0422 FAX: 617-565-8937	Paul J. Howard Suntaug Office Park 5 Broadway (Rt. 1) Saugus, MA 01906
MID-ATLANTIC	(New York, New Jersey, Delaware, Pennsylvania, Maryland, Virginia, and North Carolina)	302-674-2331 FAX: 674-5399	Daniel T. Furlong Federal Bldg., Rm. 2115 300 South New St. Dover, DE 19904
SOUTH ATLANTIC	(North Carolina, South Carolina, Georgia and Florida)	843-571-4366 FAX: 769-4520	Robert K. Mahood 1 Southpark Circle Suite 306 Charleston, SC 29407
GULF OF MEXICO	(Texas, Louisiana Mississippi, Alabama, and Florida)	843-228-2815 FAX: 225-7015	Wayne E. Swingle 3018 U.S. Highway 301 North, Suite 1000 Tampa, FL 33619
CARIBBEAN	(U.S. Virgin Islands and Commonwealth of Puerto Rico)	787-766-5926 FAX: 766-6239	Miquel A. Rolon 268 Ave. Munoz Rivera Suite 1108 San Juan, PR 00918
PACIFIC	(California, Washington, Oregon, and Idaho)	503-326-6352 FAX: 326-6831	Lawrence D. Six 2130 S.W. 5th Ave. Suite 224 Portland, OR 97201
NORTH PACIFIC	(Alaska, Washington, and Oregon)	907-271-2809 FAX: 271-2817	Clarence G. Pautzke 605 W. 4th Ave. Room 306 Anchorage, AK 99501
WESTERN PACIFIC	(Hawaii, American Samoa, Guam, and Commonwealth of the Northern Mariana Islands)	808-522-8220 FAX: 522-8226	Kitty M. Simonds 1164 Bishop St. Suite 1400 Honolulu, HI 96813

**OPTIMUM YIELD (OY) AND OTHER SPECIFICATIONS, INCLUDING AMOUNTS AVAILABLE FOR
JOINT VENTURE PROCESSING: NORTH ATLANTIC, BY SPECIES, 1998 (1)**

Item	Loligo squid	Illex squid	Atlantic mackerel	Butter- fish	Atlantic herring
	----- Metric tons, round weight -----				
Maximum OY	(2) 26,000	(2) 24,000	(3)	(2) 16,000	(4) 89,000
ABC	21,000	19,000	382,000	7,200	89,220
Initial OY	21,000	19,000	(5) 80,000	5,900	89,220
DAH	21,000	19,000	(6) 80,000	5,900	89,220
DAP	21,000	19,000	50,000	5,900	49,220
JVP	0	0	15,000	0	40,000
TALFF	0	0	0	0	0

(1) OY=Optimum Yield; ABC=Allowable Biological Catch; DAH=Domestic Annual Harvest; DAP=Domestic Annual Processing; JVP=Joint Venture Processing; and TALFF=Total Allowable Level of Foreign Fishing.

(2) Maximum OY based on the Fishery Management Plan for Atlantic mackerel, squid and butterfish.

(3) Not applicable based on the Fishery Management Plan for Atlantic mackerel, squid and butterfish.

(4) Maximum OY based on the Preliminary Fishery Management Plan for Atlantic Herring.

(5) Initial OY can increase during the year, but the total cannot exceed 382,000 metric tons.

(6) Includes 15,000 metric tons of Atlantic mackerel recreational allocation.

Source:--NMFS, Office of Sustainable Fisheries, F/SF; and NMFS, Northeast Region, F/NER.

GENERAL ADMINISTRATIVE INFORMATION

UNITED STATES DEPARTMENT OF COMMERCE

*14th and Constitution Ave., NW
Washington, DC 20230*

**MAIL
ROUTING
CODE**

**TELEPHONE
NUMBER**

--	Secretary of Commerce William Daley	202-482-2112
A	Under Secretary for Oceans and Atmospheric D. James Baker	202-482-3436

NATIONAL MARINE FISHERIES SERVICE

*1315 East-West Highway
Silver Spring Metro Center #3 (SSMC)
Silver Spring, MD 20910*

F	Assistant Administrator for Fisheries -- Penelope D. Dalton	301-713-2239
	Deputy Assistant Administrator for Fisheries -- Andrew A. Rosenberg	301-713-2239
Fx1	Staff Office for Industry and Trade -- Linda Chaves	301-713-2379
Fx2	Staff Office for Intergovernmental and Recreational Fisheries -- Richard Schaefer	301-427-2401
Fx3	Equal Employment Opportunity -- Carolyn Stiles	301-713-2252
F/SI	Seafood Inspection Program -- Samuel W. McKeen	301-713-2351
F/EN	Office of Law Enforcement -- Dale Jones	301-427-2300
F/EN1	Enforcement Operations Division	301-427-2300
F/EN11	Enforcement Programs Branch	301-427-2300
F/HC	Office of Habitat Conservation -- Andrew Kemmerer	301-713-2325
F/HCx1	Chesapeake Bay Program Office	410-267-5660
F/HC1	Watershed Division	301-713-2325
F/HC2	Habitat Protection Division	301-713-2325
F/HC3	Habitat Restoration Division	301-713-0174

(CONTINUED)

GENERAL ADMINISTRATIVE INFORMATION

105

UNITED STATES DEPARTMENT OF COMMERCE

*Silver Spring, Md. 20910***MAIL
ROUTING
CODE****TELEPHONE
NUMBER**

F/OMI	Office of Operations, Management & Information -- Lois Gajdys	301-713-2239
F/OMI1	Administrative & Budget Processes Division	301-713-2245
F/OMI2	Planning and Development Division	301-713-2252
F/OMI3	Information Management Division	301-713-2372
F/PR	Office of Protected Resources -- Vacant	301-713-2332
F/PRx1	Marine Biodiversity Team	301-713-2319
F/PR1	Permits and Documentation Division	301-713-2289
F/PR2	Marine Mammal Conservation Division	301-713-2322
F/PR3	Endangered Species Division	301-713-1401
F/SF	Office of Sustainable Fisheries -- Gary Matlock	301-713-2334
F/SF1	Highly Migratory Species Division	301-713-2347
F/SF2	Financial Services Division	301-713-2390
F/SF3	Domestic Fisheries Division	301-713-2341
F/SF4	International Fisheries Division	301-713-2276
F/SF5	Regulatory Services Division	301-713-2355
F/SF6	National Seafood Laboratory	301-713-2334
F/ST	Office of Science and Technology -- William Fox	301-713-2367
F/ST1	Fisheries Statistics & Economics Division	301-713-2328
F/ST2	Research Analysis and Coordination Division	301-713-2363
F/ST21	Scientific Publications Unit	206-526-6107
F/ST3	International Science Coordination and Analysis Division	301-713-2288
LA11	Office of Congressional Affairs - Fisheries -- Peter Hill	301-713-2263
PAF	Office of Public Affairs - Fisheries -- Scott Smullen / Gordon Helms	301-713-2370
GCF	Office of General Counsel - Fisheries -- Margaret Hayes	301-713-2231

GENERAL ADMINISTRATIVE INFORMATION

NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES

<u>MAIL ROUTING CODE</u>	<u>OFFICE</u>	<u>TELEPHONE and FAX NUMBER</u>	<u>LOCATION</u>
F/NER	Northeast Region One Blackburn Drive Gloucester, MA 01930	978-281-9300 Fax-281-9371	Gloucester, MA
F/NEC3	Northeast Fisheries Science Center 166 Water St. - Rm. 312 Woods Hole, MA 02543	508-495-2233 Fax-548-5124	Woods Hole, MA
	Woods Hole Laboratory 166 Water St. Woods Hole, MA 02543	508-495-5123 Fax-495-2258	Woods Hole, MA
	Narragansett Laboratory 28 Tarwell Drive Narragansett, RI 02882	401-782-3200 Fax-782-3201	Narragansett, RI
	Milford Laboratory Milford, CT 06460	860-873-4200 FAX-873-4212	Milford, CT
	Sandy Hook Laboratory Building 74, McGruder Highlands, NJ 07732	732-872-3000 FAX-872-3088	Highlands, NJ
	Oxford Laboratory 904 S. Morris St. Oxford, MD 21654	410-226-5193 FAX-226-5925	Oxford, MD
F/NESC3	Natl. Systematics Laboratory, MRC153 10th & Constitution Ave., NW Washington, DC 20560	202-357-2550 FAX-357-2986	Washington, DC
F/SER	Southeast Region 9721 Executive Center Drive, N. St. Petersburg, FL 33702	727-570-5301 FAX-570-5300	St. Petersburg, FL
F/SEFSC	Southeast Fisheries Science Center 75 Virginia Beach Dr. Miami, FL 33149	305-361-4284 FAX-361-4219	Miami, FL
F/SEC4	Miami Laboratory 75 Virginia Beach Dr. Miami, FL 33149	305-361-4225 FAX-361-4499	Miami, FL
F/SEC5	Mississippi Laboratories 3209 Frederick St., P.O. Drawer 1207 Pascagoula, MS 39567	228-762-4591 FAX-769-9200	Pascagoula, MS
F/SEC6	Panama City Laboratory 3500 Delwood Beach Rd. Panama City, FL 32408	850-234-6541 FAX-235-3559	Panama City, FL
F/SEC7	Galveston Laboratory 4700 Avenue U Galveston, TX 77551	409-766-3500 FAX-766-3508	Galveston, TX
F/SEC8	Charleston Laboratory 219 Fort Johnson Rd. Charleston, SC 29412	803-762-8500 FAX-762-8700	Charleston, SC

(Continued)

NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES

<u>MAIL ROUTING CODE</u>	<u>OFFICE</u>	<u>TELEPHONE and FAX NUMBER</u>	<u>LOCATION</u>
F/SEC9	Beaufort Laboratory 101 Pivers Island Beaufort, NC 28516	919-728-3595 FAX-728-8784	Beaufort, NC
F/NWR	Northwest Region 7600 Sand Point Way, N.E. BIN C15700, Bldg. 1 Seattle, WA 98115	206-526-6150 FAX-526-6426	Seattle, WA
F/NWC	Northwest Fisheries Science Center West Bldg. - Rm. 363 2725 Montlake Boulevard, East Seattle, WA 98112	206-860-3200 FAX-860-3217	Seattle, WA
F/SW	Southwest Region 501 West Ocean Blvd., Suite 4200 Long Beach, CA 90802	562-980-4000 FAX-980-4018	Long Beach, CA
F/SWFSC	Southwest Fisheries Science Center 8604 La Jolla Shores Dr. P.O. Box 271 La Jolla, CA 92038	619-546-7000 FAX-546-5655	La Jolla, CA
F/SWC2	Honolulu Laboratory 2570 Dole Street, Rm. 106 Honolulu, HI 96822	808-983-5300 FAX-943-1248	Honolulu, HI
	Pacific Islands Area Office 1601 Kapiolani Blvd., Rm. 1110 Honolulu, HI 96814	808-973-2937 FAX-983-2900	Honolulu, HI
F/SWC3	Tiburon Laboratory 3150 Paradise Dr. Tiburon, CA 94920	415-435-3149 FAX-435-3675	Tiburon, CA
F/SWC4	Pacific Fisheries Environmental Group 1352 Lighthouse Ave. Pacific Grove, CA 93950	408-648-8515 FAX-648-8440	Pacific Grove, CA
F/AKR	Alaska Region 709 West 9th Street, Room 453 P.O. Box 21668 Juneau, AK 99802	907-586-7221 FAX-586-7249	Juneau, AK
F/AKC	Alaska Fisheries Science Center, 7600 Sand Point Way, N.E. BIN C15700 - Bldg. #4 - Rm. 2149 Seattle, WA 98115	206-526-4000 FAX-526-4004	Seattle, WA
	Kodiak Laboratory Kodiak Fishery Research Center 301 Research Court Kodiak, AK 99615	907-481-1700 FAX-481-1701	Kodiak, AK
F/AKC4	Auke Bay Laboratory 11305 Glacier Highway Auke Bay, AK 99801	907-789-6000 FAX-789-6094	Auke Bay, AK

GENERAL ADMINISTRATIVE INFORMATION

NATIONAL MARINE FISHERIES SERVICE
NATIONAL FISHERY STATISTICS OFFICES

<u>CITY</u>	<u>TELEPHONE NUMBER</u>	<u>NAME AND ADDRESS</u>
<u>NORTHEAST REGION</u>		
<u>NEW ENGLAND:</u>		
(1) Portland	207-780-3322 FAX:780-3340	Robert C. Morrill / Scott McNamara / Jessica Holton, Marine Trade Center, Suite 212, Two Portland Fish Pier, Portland, ME 04101
Rockland	207-594-5969 FAX:596-7651	Peter P. Marckoon, Federal Bldg., 21 Limerock St., Rm. 217, P.O. Box 708, Rockland, ME 04841
Boston	617-223-8015 FAX:223-8526 617-223-8012 FAX:223-8526	Paul Sheahan, Statistics Office, 408 Atlantic Ave., Rm. 141, Boston, MA 0221 Jack French, Boston Market News, 408 Atlantic Ave., Rm. 141, Boston, MA 02210
(1) Gloucester	978-281-9304 FAX:281-9161	Gregory R. Power, Fishery Inf. Section, One Blackburn Dr., Gloucester, MA 01930
Gloucester	978-281-9363 FAX:281-9372	Don Mason / William Heiskel1, Rm. 107, 1 Blackburn Dr. Gloucester, MA 01930
New Bedford	508-999-2452 FAX:990-2506	Dennis E. Main / Sarah Pike, U.S. Custom House, 37 N. Second St., New Bedford, MA 0274
Chatham	508-945-5961 FAX:945-3793	Lorraine Spenle, 29C Stage Harbor Road Chatham, MA 02633
Woods Hole	508-495-2000 FAX:548-2258	John Mahoney, Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543
Newport	401-847-3115 FAX:842-0980	Margaret Toner, Post Office Bldg., Thames St., Newport, RI 02840
Pt. Judith	401-783-7797 FAX:782-2113	Walter Anoushian, 83 State St., 2nd floor, P.O. Box 547, Narragansett, RI 02882
<u>MIDDLE ATLANTIC AND CHESAPEAKE:</u>		
New York	212-620-3405 FAX:620-3577	Leo Gaudin / R. Santangelo, New York Market News, 201 Varick St., Rm. 731, New York, NY 10014
East Hampton	516-324-3569 FAX:324-3314	Erik Braun, 62 Newtown Lane, Suite 203, East Hampton, NY 11937
Patchogue	516-475-6988 FAX:289-8361	David McKernan, Social Security Bldg., 50 Maple Ave., P.O.Box 606, Patchogue, L.I., NY 11772
(1) Toms River	732-349-3533 FAX:349-4319	Eugene Steady / Joanne Pellegrino, 26 Main St., P.O. Box 143, Toms River, NJ 08754
Cape May	609-884-2113 FAX:884-4908	Walt Makowski, 1382 Lafayette St., P.O. Box 624, Cape May, NJ 08204
Sandy Hook	908-872-3133 908-872-3068	Kathy Carbo, 74 Magruder Rd., Highlands, NJ 07732
Ocean City	410-213-2761 FAX:213-7029	Ingo Fleming, 12904 Kelly Bridge Rd., P.O. Box 474, Ocean City, MD 21842
Hampton	757-723-3369 FAX:728-3947	David Ulmer / Steve Ellis / George Mattingly, 1926 Settlers Landing Rd., Suite F, P.O. Box 436, Hampton, VA 23669
<u>SOUTHEAST REGION</u>		
<u>SOUTH ATLANTIC AND GULF:</u>		
(1)Beaufort	252-728-8720 FAX:728-8772	Nelson Johnson, Beaufort Laboratory, 101 Piver Island Rd., Beaufort, NC 28516
New Smyrna Beach	904-427-6562 FAX: SAME	Claudia Dennis, Coast Guard Station/Ponce, P.O. Box 2025, New Smyrna Beach, FL 32170
Tequesta	561-575-4461 FAX:361-4565	H.Charles Schaefer / Michelle Gamby, 19100 S.E. Fedl. Highway, Tequesta, FL 33469
(1)Miami	305-361-4468 FAX:361-4460	Guy S. Davenport / Pam Brown-Eyo, 75 Virginia Beach Dr., Miami, FL 33149

(Continued)

**NATIONAL MARINE FISHERIES SERVICE
NATIONAL FISHERY STATISTICS OFFICES**

<u>CITY</u>	<u>TELEPHONE NUMBER</u>	<u>NAME AND ADDRESS</u>
-------------	-----------------------------	-------------------------

SOUTHEAST REGION**SOUTH ATLANTIC AND GULF:**

Key West	305-294-1921 FAX: SAME	Edward J. Little, Jr., Post Office & Custom House Bldg., P.O.Box 269, Key West, FL 33040
Fort Myers	941-334-4364 FAX: SAME	Tom Herbert, 2000 Main St., Suite 409 Fort Myers, FL 33901
St. Petersburg	727-570-5393 FAX:570-5300	Renee Roman / Greg Fairclough, 9721 Executive Center Dr., St. Petersburg, FL 3370
Panama City	850-234-6541 FAX:235-3558	Deborah Fable / June Weeks, 3500 Delwood Beach Rd., Panama City, FL 32407
Mobile	334-441-6193 FAX: SAME	Ted Flowers, U.S.Coast Guard - ATC, P.O. Box 97, Mobile, AL 36608
Pascagoula	228-762-7402 FAX:769-9200	Rene Labadens / Charles Armstrong, 3209 Frederic St., P.O. Box Drawer 120' Pascagoula, MS 39567
Chalmette	504-277-0365 FAX:271-9150	Maggie Bourgeois / Jay Boulet, 2626 Charles Dr., Suirte 201, Chalmette, LA 70043
Golden Meadow	504-632-4324 FAX: SAME	Gary J. Rousse, 290 E. 57th St. (Cutoff, LA 70345), P.O.Box 623, Golden Meadow, LA 70357
Houma	504-872-3321 FAX: SAME	Kathleen Hebert, 425 Lafayette St., Rm. 128, Houma, LA 70360
Marrero	504-872-1403 FAX: SAME	Billy Ray Tucker, 1340 W. Tunnel Blvd., Suite 222, Houma, LA 70360
New Iberia	504-340-5820 FAX: SAME	Jan Simpson, 5201 Westbank Expressway, Suite 312, Marrero, LA 70072
New Orleans	318-365-1558 FAX: SAME	Linda F. Picou, 705-A West Admiral Doyle Dr. New Iberia, LA 70560
Aransas Pass	504-589-6151 FAX: SAME	Debbie Batiste, 423 Canal St., Rm. 213, New Orleans, LA 70130
Brownsville/ Port Isabel	512-758-1043 FAX: SAME	Roy Spears, 132 Cleveland Blvd., P.O. Box 1815, Aransas Pass, TX 78336
Freeport	210-548-2516 FAX: SAME	Kit Doncaster / Edie Lopez, Shrimp Turning Basin, HC 70 Box 15, Brownville, TX 78521
(1)Galveston	409-233-4551 FAX: SAME	Thomas R. Mauermann, Texas Gulf Bank, Suite 213, P.O.Box 2533, Freeport, TX 77542
Port Arthur	409-766-3705 FAX:766-3543	Margot Hightower or W. Keith Roberts, 4700 Avenue U, Bldg. 306 Galveston, TX 77551
	409-727-2271 FAX: SAME	Linda S. Trahan, Federal Bldg., Rm. 113, 2875 Jimmy Johnson Blvd., Port Arthur, TX 77640

SOUTHWEST REGION

(1)Long Beach, CA or Honolulu, HI	562-980-4033 FAX:980-4047	Patricia J. Donley, 501 West Ocean Boulevard, Rm. 4200, P.O. Box 32469, Long Beach, CA 90832
--------------------------------------	------------------------------	---

NORTHWEST REGION

(1)Seattle	206-526-6119 FAX:526-4461	John K. Bishop, 7600 Sand Point Way, NE, Bldg. 1, BIN C 15700, Seattle, WA 98115
------------	------------------------------	---

ALASKA REGION

(1)Juneau	907-586-7323 FAX:586-7465	David Ham, Federal Building, 4th Floor, 709 West 9th St., P.O. Box 21668, Juneau, AK 99802
-----------	------------------------------	---

(1) Regional or area headquarters for statistics offices.

LIBRARY INFORMATION

The NOAA Library and Information Network Catalog (NOAALINC) is an integrated library system available on the Internet at www.lib.noaa.gov. NOAALINC represents the library holdings of the NOAA Central Library in Silver Spring, Maryland and 27 other NOAA libraries located nationwide. Currently, the NOAALINC contains over 230,000 items with 10,000-15,000 added each year.

NOAALINC provides several search methods to locate records of items. Users can search for keywords in titles, subject headings, authors, or series. Users can browse indexes of titles, subject headings, authors, series, or call number. Each bibliographic record shows a brief description of the item with a list of which libraries hold the item. The list of libraries will show the call number, item's specific information, and whether the item is available for circulation.

NOAALINC is available to anyone, without restriction, 24 hours a day, every day of the year. Visitors to the NOAA Central Library can also access the catalog thru workstations located throughout the Library. Remote users can access the catalog thru a link from the NOAA Central Library's homepage at - <http://www.lib.noaa.gov/>.

NOAA personnel may contact the nearest NOAA Library or the NOAA Central Library and arrange to borrow materials. Members of the general public should contact their local library to arrange for an interlibrary loan.

For further information contact the NOAA Central Library, 1315 East-West Highway, 2nd Floor, Silver Spring, MD 20910-3282. Telephone: 301-713-2607 (Ext. 124) or E-mail: reference@nodc.noaa.gov.

PUBLICATIONS AVAILABLE FROM U.S. GOVERNMENT PRINTING OFFICE**STATISTICAL REPORTS**

003-020-00169-6 Fisheries of the United States, 1997
...\$16.00

003-020-00170-0 Fisheries of the United States, 1998
...NA

003-009-00635-0 United States Industrial Outlook
1994: Business Forecasts for 350
Industries . . . \$48.00

003-009-00650-3 United States Industrial Outlook
1995: Business Forecasts for 350
Industries . . . \$19.00

003-009-00650-3 U.S. Global Outlook (Name change)
1995: Business Forecasts for 350
Industries...\$20.00

MISCELLANEOUS REPORTS

003-009-00618-0 United States Industrial Outlook
1993: Business Forecasts for 350
Industries . . . \$37.00

S/N 703-023-
00000-2
(FB) 2D Fishery Bulletin (Quarterly): Publishes
Original Research Papers, etc.
\$32.00 a year

*For information or to purchase publications listed above
(Advance Payment Required), call or write:*

**Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20202
PHONE: 202-512-1800 / FAX: 512-2250**

PUBLICATIONS AVAILABLE FROM NATIONAL MARINE FISHERIES SERVICE AND
NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)
U.S. DEPARTMENT OF COMMERCE

SCIENTIFIC PUBLICATIONS:

Information on formal scientific publications by NMFS (such as NMFS journals and technical publications) may be obtained from the Scientific Publications Office (F/ST21), 7600 Sand Point Way, N.E., BIN C-15700, Seattle, WA 98115.

Telephone: 206-526-6107

CURRENT FISHERY STATISTICS (CFS) SERIES:

The reports listed below are in the Current Fisheries Statistics (CFS) series. They are statistical bulletins on marine recreational fishing, commercial fishing, and on the manufacture and commerce of fishery products. For further information or to obtain a subscription to these publications, contact the office shown below:

NOAA, National Marine Fisheries Service
Fisheries Statistics and Economics Division (F/ST1)
1315 East-West Highway - Station 12340
Silver Spring, MD 20910
Telephone: 301-713-2328

The bulletins shown below cover freezings and holdings prior to 1997 and holdings only for 1997 and the U.S. foreign trade in fishery products. If you wish a copy of the following publications, check the designated space () and return to the Office indicated above. The following are available annually:

- () FF - Frozen Fishery Products (Annual)
- () FT - Imports and Exports of Fishery Products (Annual)

OTHER PUBLICATIONS:

All publications listed below may be obtained from NTIS (address and phone number listed on page 116), the originating office (code follows in parentheses), or the appropriate homepage. Copies are available only as long as supply lasts.

- () A Guide to Tunas of the Western Atlantic Ocean, NMFS, 1997. 18 p. (SF)
- () Our Living Oceans - Report on The Status of U.S. Living Marine Resources, 1995 Executive Summary. (F/ST)
- () Our Living Oceans - Report on The Status of U.S. Living Marine Resources, 1998. (F/ST)
- () Our Living Oceans - Report on The Economic Status of U.S. Fisheries, 1996. (F/ST)
- () Protecting and Restoring Essential Fish Habitat. (F/HC)
- () Report on Apportionments of Membership on the Regional Fishery Management Council (RFMCs) in 1997. (F/SF)
- () The Saltonstall-Kennedy Grant Program: Fisheries Development and Utilization Research and Development Grants (F/SF)
- () The Saltonstall-Kennedy Grant Program: Fisheries Development and Utilization Research and Development Grants - Annotated Bibliography (F/SF)
- () USDC Approved List of Fish Establishments and Products -- Semi-Annual Report. (Documentation Approval and Supply Service, Pascagoula, MS., Phone: 228-762-1892)
- Atlantic Striped Bass Research Study: Socio-economic Benefits of the Striped Bass Resource. Report to Congress.** National Marine Fisheries Service and U.S. Fish and Wildlife Service, 1998. Silver Spring, Maryland. 15 p. (Fx2)

Protecting Marine Mammals: Look from a Distance... but Don't Touch, Feed or Harm in the Wild. Prepared by the Texas Sea Grant Program for the Office of Protected Resources, NMFS, 1992. 6 p. (F/PR)

Recovery Plan for U.S. Pacific Population of the East Pacific Green Turtle (*Chelonia mydas*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR)

Recovery Plan for U.S. Pacific Population of the Green Turtle (*Chelonia mydas*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR)

Recovery Plan for U.S. Pacific Population of Hawksbill Turtle (*Eretmochelys imbricata*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD (F/PR)

Recovery Plan for U.S. Pacific Leatherback Turtle (*Dermochelys coriacea*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD (F/PR)

Recovery Plan for U.S. Pacific Population of the Loggerhead Turtle (*Chelonia caretta*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR)

Recovery Plan for the Olive Ridley Turtle (*Lepidochelys olivacea*). National Marine Fisheries Service and the U.S. Fish and Wildlife Service, 1998. Silver Spring, MD (F/PR)

Report to Congress on Status of Fisheries of the United States. National Marine Fisheries Service. October 1998. (SFA homepage)

COMMERCIAL FISHERIES:

Fisheries of the United States is a preliminary report with historical comparisons on the Nation's fishing, fish processing, and foreign trade in fishery products. The following reports are available through NTIS.

<u>Year</u>	<u>Accession No.</u>
1966	COM-75-10662
1967	COM-75-10663
1968	COM-75-10664
1969	COM-75-10665
1970	COM-71-50081
1971	COM-75-10666
1972	COM-73-50644
1973	COM-74-50546
1974	COM-75-10862
1975	PB-253966
1976	PB-268662
1977	PB-282741
1978	PB-297083
1979	PB-80-201593
1980	PB-81-241648
1981	PB-82-215542
1982	PB-83-216473
1983	PB-84-195148
1984	PB-86-144953
1985	PB-87-143145
1986	PB-88-164132
1987	PB-88-215173
1988	PB-89-216485

<u>Year</u>	<u>Accession No.</u>
1989	PB-91-129-320
1990	PB-92-174523/AS
1991	PB-93-204536/AS
1992	PB-94-156387
1993	PB-95-219192

Fisheries Statistics of the United States (Statistical Digest) is a final report on the Nation's commercial fisheries showing more detail than *Fisheries of the United States*.

<u>Year</u>	<u>Accession No.</u>
1939	COM-75-11265
1940	COM-75-11266
1941	COM-75-11267
1942	COM-75-11268
1943	COM-75-11269
1944	COM-75-11270
1945	COM-75-11271
1946	COM-75-11272
1947	COM-75-11273
1948	COM-75-11274
1949	COM-75-11275
1950	COM-75-11056
1951	COM-75-11053
1952	COM-75-11054
1953	COM-75-11055
1954	COM-75-11057
1955	COM-75-11058
1956	COM-75-11059
1957	COM-75-11060
1958	COM-75-11061
1959	COM-75-11062
1960	COM-75-11063
1961	COM-75-11064
1962	COM-75-11065
1963	COM-75-11066
1964	COM-75-11067
1965	COM-75-11068
1966	PB-246429
1967	PB-246430
1968	COM-72-50249
1969	COM-75-10887
1970	COM-75-10643
1971	COM-74-51227
1972	COM-75-11430
1973	PB-262058
1974	PB-277796
1975	PB-300625
1976	PB-81-163438
1977	PB-84-192038

STATE LANDINGS:

- Maine: 1946-76, PB-271-296; 1977-79, PB-128258.
- Massachusetts: 1943-76, PB-275866; 1977-79, PB-81-143182.
- Rhode Island: 1954-77; PB-287627; 1978-79, PB-81-157158.
- New York: 1954-76, PB-275449; 1977-79, PB-81-134546.
- New Jersey: 1952-76, PB-275696; 1977-79, PB-81-159048.
- Maryland: 1960-76, PB-300636; 1977-79, PB-81-159003.
- Virginia: 1960-76, PB-300637; 1977-79, PB-82-151960.
- North Carolina: 1955-76, PB-288928; 1977-79, PB-82-151978.
- South Carolina: 1957-76, PB-289405; 1977-79, PB-81-163198.
- Georgia: 1956-76, PB-289814; 1977-79, PB-81-157166.
- Florida: 1950-76, PB-292068.
- Alabama: 1950-77, PB-80-121262; 1978, PB-82-168071.
- Mississippi: 1951-77, PB-80-121270; 1978, PB-82-169079.
- Louisiana: 1957-77, PB-300583; 1978, PB-82-168063.
- Texas: 1949-77, PB-300603; 1978-79, PB-82-169004.
- Shrimp Landings: 1956-76, PB-80-124696; 1978-79, PB-82-156183.
- Gulf Coast Shrimp Data: 1958-76, PB-80-126899; 1978-79, PB-82-170390.

INTERNATIONAL REPORTS:

The Division of International Science and Technology, NMFS, prepares assessments of major fisheries to support priority NMFS programs. These reports may be of interest to the wider fishery community as they include biological, commercial, and technical information of potential use to academicians, industry, and environmentalists.

Swordfish:

In 1997 work was completed on a six-volume study, culminating a two-year research project to compile and analyze information on every key swordfish catching nation in the world. *World Swordfish Fisheries*, is the most comprehensive documentation of this fishery ever produced. Each volume of the study contains information on catch, fishing grounds, fishing fleets, gear and methods, markets, trade, bycatch, research, international relations, and other facets of the fishery. The books are carefully documented and have extensive statistical appendices, graphics, and photographic images to help explain the fishery and illustrate key trends. Work on the swordfish fisheries of the Atlantic States of Latin America is ongoing with major reports schedules for release in 1999.

World Swordfish Fisheries: An Analysis of Swordfish Fisheries, Market Trends, and Trade Patterns, Past-Present-Future. Complete six-volume set. (NTIS No. PB-98-123414/GBA).

Volume I: Executive Overview. Summary of World Fisheries for Swordfish and Overview of Global and Regional Trends. 53 p. (NTIS No. PB-98-123425/GBA).

Volume II: Africa and the Middle East. Examination of Fisheries and Overview of Regional Trends in Africa and in Select Middle Eastern countries. 235 p. (NTIS No. PB-98-123433/GBA).

Volume III: Asia. Summary of Asian Fisheries and Overview of Regional Trends. Special Coverage of Japan, Korea, and Taiwan. 144 p. (NTIS No. PB-98-123441/GBA).

Volume IV: Latin America. Summary of Swordfish Fisheries, along the Pacific Coast of South America. Both volumes 843 p. Further individual country reports are planned for 1998.

Part A., Section 1, Segment A. Covers Fisheries of Colombia, Ecuador, and Peru (428 p.) (NTIS No. PB-98-123458/GBA).

Segment B. Provides in-depth Information about Chile (415 p.) (NTIS No. PB-98-123466/GBA).

Volume V: North America. Overview of Canadian and U.S. Fisheries for Swordfish. 136 p. (NTIS No. PB-98-123474/GBA).

Volume VI: Western Europe. Examination of European fisheries with special emphasis on the European Union member states (especially Spain, Italy, Greece and France). Non-EU countries are also considered. 324 p. (NTIS No. PB-98-123482/GBA).

World Fleet:

The Office of International Affairs, NMFS, prepared a six-volume study which analyzed trends in the world's distant-water fishing fleets. The subjects covered included catch, fishing areas, vessel construction and imports, flag-of-convenience registration, international agreements, and joint ventures.

World fishing Fleets: An Analysis of Distant-water Fleet Operations. Complete six-volume set. (NTIS No. PB-94-140811/GBA).

Volume I: Executive Summary. Overview of world distant-water fishing fleets and summary of regional trends. 54 p. (NTIS No. PB-94-140829/GBA).

Volume II: Africa. Compilation of information by U.S. Embassies on fleet operations in selected African countries. 51 p. (NTIS No. PB-94-140837/GBA).

Volume III: Asia. Overview of Asian fleets and individual studies of China, Japan, Republic of Korea, and Taiwan fleets. 144 p. (NTIS No. PB-94-140845/GBA).

Volume IV: Latin America. Overview of Caribbean, Central America, South America, and individual reports on the Latin American fleets engaged in distant-water fisheries. 513 p. (NTIS No. PB-94-140852/GBA).

Volume V: Baltic States, Commonwealth of Independent States, and Eastern Europe. Overview of each of these three blocs and 10 individual country studies including Russia, Poland, and Ukraine. 286 p. (NTIS No. PB-94-140860/GBA).

Volume VI: Western Europe and Canada. Overview sections for Europe Community and non-EC countries and individual country studies for all West European fishing nations and Canada. 362 p. (NTIS No. PB-94-140878/GBA).

World Shrimp and Salmon Culture Study:

A detailed overview of the salmon and shrimp culture industries in each of the primary producing countries of the world. The reports include information on species, areas developed, companies and farms, hatcheries, culture methods, research, harvests, exports, investments, environmental factors, trade, feed, and other subjects. The study was completed in 1992.

World Salmon Culture. This book provides detailed information about farmed salmon aquaculture around the world. A historical background is provided for all key farmed salmon producing nations. The work is carefully illustrated with graphs and statistical tables. An excellent resource for individuals seeking background information on salmon culture. 323 p. (NTIS No. PB-93-134617/GBA).

World Shrimp Culture. Complete work is available in two volumes (Volume II. has 3 parts). Readers may also purchase individual parts separately. 1,152 p. (NTIS No. PB-93-134625/GBA).

Volume I: Asia, Africa, Europe, the Middle East, and North America. Overview sections for Asia with reporting on shrimp culture in other countries.. 362 p. (NTIS No. PB-94-140878/GBA).

Volume II. Latin America

Part I: This book includes a detailed Latin American overview and individual reports on the shrimp culture industry in the Caribbean island countries. 326 p. (NTIS No. PB93-134641/GBA).

Part II: This book includes a brief summary of the shrimp culture industry in Central America as well as individual reports on Mexico and each Central American country. 356 p. (NTIS No. PB93-134658/GBA).

Part III: This book includes a brief regional summary of shrimp culture in South America and individual reports on the shrimp culture industry of each South American country. 329 p. (NTIS No. PB93-134666/GBA).

NORTHEAST REGION:

Northwest Atlantic Groundfish: Perspectives on a Fishery Collapse. Boreman, J., B.S. Nakashima, J.A. Wilson, and R.L. Kendall, eds. 1997. American Fisheries Society, Bethesda, MD. 242p. (F/NEC).

Status of Fishery Resources off the Northeastern United States for 1998. S.H. Clark, ed. 1998. (NOAA-TM-NMFS-NE-115). 149 p.. (F/NEC).

The History, Present Condition, and Future of the Molluscan Fisheries of North and Central America and Europe, 3 vols. MacKenzie, C.L., Jr., V.G. Burrell, Jr., and W.L. Hobart, eds. 1997. (NOAA-Tech. Rep-NMFS-NE-128) (F/NEC).

U.S. Atlantic Marine Mammal Stock Assessments -- 1998. Waring, G.T., D.L. Palka, P.J. Clapham, S. Swartz, M.C. Rossman, T.V.N. Cole, K.D. Bisack, and L.J. Hansen, 1999. (NOAA-TM-NMFS-NE-116) 182p. (F/NEC).

SOUTHEAST REGION:

Habitat Protection Accomplishments of the National Marine Fisheries Service - Fiscal Year 1996. Habitat Conservation Division, Southeast Regional Office. 1996. 88 p.+Appen. (F/SER).

SOUTHWEST REGION:

Description of Pelagic Larval and Juvenile Grass Rockfish, *Sebastes rastrelliger* (Family Scorpaenidae) with an Examination of Age and Growth. Laidig, T. E., and K. M. Sakuma. 1998. Fish. Bull., U.S. 96:788-796. (F/SWC)

Dolphin Prey Abundance Determined from Acoustic Backscatter Data in Eastern Pacific Surveys. Fiedler, P. C., J. Barlow, and T. Gerrodette. 1998. Fish. Bull., U.S. 96:237-247. (F/SWC)

Dried Dolphin Blood on Fishery Observer Records Provides DNA for Genetic Analyses. Eggert, L. S., C. A. Lux, G. M. O'Corry-Crowe, and A. E. Dizon. 1998. Mar. Mamm. Sci. 14:136-143. (F/SWC)

Effects of Sea-Ice Extent and Krill or Salp Dominance on the Antarctic Food Web. Loeb, V., V. Siegel, O. Holm-Hansen, R. Hewitt, W. Fraser, W. Trivelpiece, and S. Trivelpiece. 1997. Nature 387(6636):897-900. (F/SWC)

Estimated Tuna Discard from Dolphin, School, and Log Sets in the Eastern Tropical Pacific Ocean, 1989-1992. Edwards, E. F., and P. C. Perkins. 1998. Fish. Bull., U.S. 96:210-222. (F/SWC)

Estimation of Sea Turtle Take and Mortality in the Hawaii-based Longline Fishery, 1994-96. Skillman, R. A., and P. Kleiber. 1998. (NOAA-TM-NMFS-SWFSC-257). 54 p. (F/SWC)

How Might Recruitment Research on Coral-Reef Fishes Help Manage Tropical Reef Fisheries? DeMartini, E. E. 1998. Aust. J. Ecol. 23:305-310. (F/SWC)

Individual Transferable Quotas in Multispecies Fisheries. Squires, D., H. Campbell, S. Cunningham, C. Dewees, R. Q. Grafton, S. F. Herrick Jr., J. Kirkley, S. Pascoe, K. Salvanes, B. Shallard, B. Turris, and N. Vestergaard. 1998. Mar. Pol. 22(2):135-159. (F/SWC)

Intrinsic Rebound Potentials of 26 Species of Pacific Sharks. Smith, S. E., D. W. Au, and C. Show. 1998. Mar. Freshwater Res. 49:663-678. (F/SWC)

Investigation of the Potential Influence of Fishery-Induced Stress on Dolphins in the Eastern Tropical Pacific Ocean: Research Planning. Curry, B. E., and E. F. Edwards. 1998. (NOAA-TM-NMFS-SWFSC-254). 59 p. (ITS No. PB98-160948). (F/SWC)

Issues and Options in Designing and Implementing Limited Access Programs in Marine Fisheries. Pooley, S. G., and the NMFS Limited Access Working Group. 1998. (NOAA-TM-NMFS-SWFSC-252). (F/SWC)

Killer Whales of California and Western Mexico: A Catalog of Photo-Identified Individuals. Black, N. A., A. Shulman-Janiger, R. L. Ternullo, and M. Guerrero-Ruiz. 1997. (NOAA-TM-NMFS-SWFSC-247). 289 p. (ITS No. PB98-160971). (F/SWC)

Long-Range Tuna School Detection Sonar System Design Specification, December 1997. Denny, Gerald F., Kenneth E. deVilleroy, Patrick K. Simpson. Administrative Report. SWR-98-01. 38p. (F/SWR)

Marine Harvest Refugia for West Coast Rockfish: A Workshop. Yoklavich, M. M. (ed.). 1998. (NOAA-TM-NMFS-SWFSC-255). 159 p. (Electronic publication: http://www.pfegc.noaa.gov/whats_new/refugia_index.html). (F/SWC)

A New Geographic Form of the Spinner Dolphin, *Stenella Longirostris*, Detected with Aerial Photography. Perryman, W. L., and R. L. Westlake. 1998. Mar. Mamm. Sci. 14:38-50. (F/SWC)

Recommended Recovery Actions for the Hawaiian Monk Seal Population at Midway Island. Gilmartin, W. G., and G. A. Antonelis. 1998. (NOAA-TM-NMFS-SWFSC-253). (F/SWC).

Report of the Fifteenth North Pacific Albacore Workshop, Nanaimo, B.C., Canada, December 3-5, 1997. Shaw, W., and N. Bartoo (eds.). 1998. Canadian Department of Fisheries and Oceans. 38 p. (F/SWC)

Seasonal Patterns in the Abundance and Distribution of California Cetaceans, 1991-1992. Forney, K.A., and J. Barlow. 1998. Mar. Mamm. Sci. 14:460-489. (F/SWC)

Shark Bycatch in the Japanese High Seas Squid Driftnet Fishery in the North Pacific Ocean. McKinnell, S., and M. P. Sekl. 1998. Fish. Res. 39:127-138. (F/SWC)

Shark Fisheries, Trade, and Market of Japan. Sonu, Sunee C., 1998. 70 p. (NOAA-TM-NMFS-SWR-033) (F/SWR)

The State of the California Current, 1997-1998: Transition to El Niño Conditions. Lynn, R. J., et al. 1998. Calif. Coop. Oceanic Fish. Invest. Rep. 39:25-49. (F/SWC)

Three Closely Related Herpes viruses are Associated with Fibropapillomatosis in Marine Turtles. Quakenbush, S. L., T. M. Work, G. H. Balazs, R. N. Casey, J. Rovnak, A. Chaves, L. du Toit, J. D. Baines, C. R. Parrish, P. R. Bowser, and J. W. Casey. 1998. Virology 246:392-399. (F/SWC)

U. S. Pacific Marine Mammal Stock Assessments: 1998. Barlow, J. P., K. A. Forney, and D. P. DeMaster. 1998. (NOAA-TM-NMFS-SWFSC-258). 41 p. (F/SWC)

NORTHWEST REGION:

Status Review of Pink Salmon from Washington, Oregon, and California. Hard, J.J., R.G. Kope, W.S. Grant, F.W. Waknitz, L.T. Parker, and R.S. Waples. 1996. (NOAA-TM-NMFS-NWFSC-25) 131 p. (NTIS No. PB96-162607)

Status Review of West Coast Steelhead from Washington, Idaho, Oregon, and California. Busby, P.J., T.C. Wainwright, G.J. Bryant, L. Lierheimer, R.S. Waples, F.W. Waknitz, and I.V. Lagomarsino. 1996. (NOAA-TM-NMFS-NWFSC-27) 261 p. (NTIS No. PB96-210166).

ALASKA REGION:

Aerial and Ship-based Surveys of Steller Sea Lions (*Eumetopias jubatus*) in Southeast Alaska, the Gulf of Alaska, and Aleutian Islands during June and July 1994. Strick, J. M., L. W. Fritz, and J. P. Lewis. 1997. (NOAA-TM-AFSC-71). 55 p. (NTIS No. PB97-144026).

Alaska Marine Mammal Stock Assessments, 1996. Hill, P. S., D. P. DeMaster, and R. J. Small. 1997. (NOAA-TM-AFSC-78). 150 p. (NTIS No. PB97-203277).

Assessment of the Status of Harbor Porpoise (*Phocoena phocoena*) in Oregon and Washington waters. Osmeck, S., J. Calambokidis, J. Laake, P. Gearin, R. DeLong, J. Scordino, S. Jeffries, and R. Brown. 1997. (NOAA-TM-AFSC-76). 46 p. (NTIS No. PB97-198436).

Data report: National Marine Fisheries Service Longline Surveys, 1991-96. Rutecki, T. L., M. F. Sigler, and H. H. Zenger Jr. 1997. (NOAA-TM-AFSC-83). 64 p. (NTIS No. PB98-108822).

Data Report: 1996 Gulf of Alaska Bottom Trawl Survey. Martin, M. H. 1997. (NOAA-TM-AFSC-82) 235 p. (NTIS No. PB98-103930).

Diversity and Abundance of Neustonic Zooplankton in the North Pacific Subarctic Frontal Zone. Ebberts, B. D., and B. L. Wing. 1997. (NOAA-TM-AFSC-70). 34 p. (NTIS No. PB97-138218).

Echo Integration-Trawl Survey of Pacific Whiting, *Merluccius productus*, off the West Coasts of the United States and Canada during July-September 1995. Wilson, C. D., and M. A. Guttormsen. 1997. (NOAA-TM-AFSC-74). 70 p. (NTIS No. PB97-174387).

Economic Status of the Groundfish Fisheries off Alaska, 1995. Kinoshita, R. K., A. Grieg, D. Colpo, and J.M. Terry. 1997. (NOAA-TM-AFSC-72). 91 p. (NTIS No. PB97-161269).

Field Studies of Steller Sea Lions (*Eumetopias jubatus*) at Marmot Island, Alaska, 1979 through 1994. Chumbley, K., J. Sease, M. Strick, and R. Towell. 1997. (NOAA-TM-AFSC-77). 99 p. (NTIS No. PB97-203376).

Ichthyoplankton in the Eastern Gulf of Alaska, May 1990. Wing, B. L., C. W. Derrah, and V. M. O'Connell. 1997. (NOAA-TM-AFSC-75). 42 p. (NTIS No. PB97-174379).

The 1995 Pacific West Coast upper Continental Slope Trawl Survey of Groundfish Resources off Southern Oregon and Northern California: Estimates of distribution Abundance, and Length Composition. Lauth, R. R. 1997. (NOAA-TM-AFSC-80). 110 p. (NTIS No. PB97-208920).

The 1996 Pacific West Coast Upper Continental Slope Trawl Survey of Groundfish Resources off Washington and Oregon: Estimates of Distribution, Abundance, and Length Composition. Lauth, R. R. 1997. (NOAA-TM-AFSC-81). 156 p. (NTIS No. PB97-208912).

Results of Trawl Surveys of Groundfish Resources of the West Coast Upper Continental Slope from 1989 to 1993. Lauth, R. R., M. E. Wilkins, and P. A. Raymore Jr. 1997. (NOAA-TM-AFSC-79). 342 p. (NTIS No. PB97-208904).

Suitability of Dry Bay, Southeastern Alaska, as Rearing Habitat for Juvenile Salmon. Celewycz, A. G., and A. C. Wertheimer. 1997. (NOAA-TM-AFSC-73). 19 p. (NTIS No. PB97-161343).

Oregon, Washington, and Alaska Exports of Edible Fishery Products, 1994. Kinoshita, R. K., and J. M. Terry. 1996. (NOAA-TM-AFSC-63). 49 p. (NTIS No. PB96-183553).

Status of Pacific Salmon and Steelhead Escapements in Southern Alaska. Baker, T. T., A. C. Wertheimer, R. D. Burkett, R. Dunlap, D. M. Eggers, E. I. Fritts, A. J. Gharrett, R. A. Holmes, and R. L. Wilmot. 1996. *Fisheries* 21(10): 6-18. (F/AKC).

The Threatened Status of Steller Sea Lions, *Eumetopias jubatus*, Under the Endangered Species Act: Effects on Alaska Groundfish Fisheries Management. Fritz, L.W., R. C. Ferrero, and R.J. Berg. 1995. *Mar. Fish. Rev.* 57(2):14-27. (F/AKC).

=====

To purchase the preceding reports listed with NTIS, call or write:

NTIS -- ATTN: Order Desk

5285 Port Royal Road, Springfield, VA 22161

PHONE: 703-487-4650 / FAX: 321-8547

Commercial Fisheries

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Print Edit

Address http://www.st.nmfs.gov/st1/commercial/ Links

COMMERCIAL FISHERIES

NMFS / Office of Science & Technology / Fisheries Statistics & Economics Division

Statistics & Economics Home

Commercial Fisheries

Fishery Market News

Foreign Trade Information

Recreational Fisheries

Fisheries Economics

Commercial Fishery Landings

- Monthly Landings
- Annual Landings
- Landings by Gear
- Landings Background
- Data Caveats

Other Specialized Programs

- Vessel Documentation Data
retrieved using craft registration no.
- Vessel Documentation Data
retrieved using craft name
- Annual Landings with Group
subtotals
- Preliminary Annual Landings by
Distance from Shore

Summary

The Fisheries Statistics & Economics Division of the National Marine Fisheries Service (NMFS) has commercial landings data bases and automated data summary programs that anyone can use to rapidly and easily summarize U.S. fisheries landings. These data and summary programs are currently applicable to fisheries conducted in Atlantic and Gulf of Mexico waters and in the Pacific off of the states of Washington, Oregon, and California; landings for Alaska and Hawaii will be made available at a later date. You can summarize the pounds and dollar value of commercial landings by your choice of years, months, states and species for the years 1990-1997. The volume and value of 1950-1997 landings can be summarized by years, states and species or by years, states, species and fishing gears.

You select variable inputs from pull down menus and then click on the "Submit" button to run the summary programs. The "broader" the data request (e.g., the more states or years chosen) the slower the program will run. Simple data requests run in a few seconds while complex queries may take a minute. Please read the caveats associated with these data before using them in any research, report or commercial endeavor. If you have questions about the data or are aware of any errors, write us at our e-mail address

We will make other fishery landings, vessel, fishing gear and other information available to users as time permits.




Fisheries Statistics & Economics Home Page
Office of Science & Technology Home Page

SERVICES

NATIONAL MARINE FISHERIES SERVICE FISHERIES MARKET NEWS

HOME PAGES

The National Marine Fisheries Service provides information on programs and data available to the public and fishing industry via home page. Please use the following address for NMFS' home page - <http://www.nmfs.gov/> through a personal computer. If you wish to access individual office home pages the addresses and a brief description follows:

Fisheries Statistics - <http://www.st.nmfs.gov/st1/>. Descriptions of commercial and recreational fisheries statistics data collection programs. Access to commercial monthly landings data bases, Marine Recreational Fisheries Statistics Survey (MRFSS) data, cold storage, Market News Reports, processed products data, and trade data base.

Inspection Program- <http://seafood.nmfs.gov/>. Provides information on the National Voluntary Seafood Inspection Program, list of approved fish establishments and products, fees and charges, and policies for advertising services and marks.

Saltonstall-Kennedy Grant Program - <http://www.nmfs.gov/sfweb/skhome.html>. Description of the Saltonstall-Kennedy (S-K) Program, the most recent solicitation for proposals, application forms and instructions, FAQs, and Regional contacts for the S-K Program, as well as the latest update to the S-K Annotated Bibliography of completed projects.

Protected Resources - http://nmfs.gov/prot_res/prot_res.html. Contains recovery efforts for species considered endangered or threatened; depleted species of marine mammals; and a comprehensive list of other Internet resources pertaining to protection programs and other issues. Information on Endangered Species Act and Marine Mammal Protection Act.

Northeast Region - <http://www.nero.nmfs.gov/doc/nero.html>. Describes the mission and responsibilities of the Regional Office Staffs and Divisions. Provides information on fisheries regulations, quota reports for summer flounder, and links to other NOAA sites.

Northeast Fisheries Scientific Center - <http://www.nefsc.nmfs.gov>. Provides current and historical northeast fisheries information and data about research facilities, vessels, programs, publications, management, laws and regulations, and answers to frequently asked questions on fish and fisheries research. Features in-depth information on northeast stock status and realtime, at-sea, display of research vessel activities, measurements, and observations.

Southeast Region - <http://caldera.sero.nmfs.gov/>. Provides information on regional Federal activities including: fisheries regulations, vessel and dealer permits, fishery management plan implementation/quotas, marine mammals and endangered species management and protection, habitat protection and restoration activities, and federal aid programs for grants and cooperative agreements.

NATIONAL MARINE FISHERIES SERVICE FISHERIES MARKET NEWS

HOME PAGES

Southeast Fisheries Science Center - <http://www.sefsc.noaa.gov/>. Describes the mission of the Center in support of NMFS including laboratories dedicated to research covering North Carolina--Texas and the Caribbean. Provides research data to support the programs which include large marine ecosystem, collecting and reporting statistical/economic data, fishery resource conservation, protection of marine mammals and endangered species, and impact analysis / environmental assessments.

Alaska Region - <http://www.fak.noaa.gov/>. Provides information on in season state of groundfish, catch statistics, new releases, regulations, maps, and tables. Sablefish and halibut quota program, catch data and appeal cases. Information on Marine Mammal Authorization Program.

Alaska Fisheries Science Center - <http://www.afsc.noaa.gov/>. Describes the mission of the Center and the organization and purpose of its laboratories, divisions, and programs dedicated to Federal fisheries research in the coastal oceans off Alaska and the West Coast of the United States and marine mammal research in the Antarctic, Arctic, Alaska and California current ecosystems.

Northwest Fisheries Science Center - <http://research.nwfsc.noaa.gov/nwfsc-homepage.html>. Describes Center research, including status and recovery of endangered salmon and new hatchery-rearing techniques; rapid-response analyses of chemical pollution and harmful algal blooms in fishery grounds nationwide; assessing the west coast groundfish fishery; and developing new bycatch utilization technologies. News topics, current publications, library resources, and the Center's state-of-the-art water-recycling fish culture facility are also featured.

Southwest Region - <http://swr.ucsd.edu/>. Described the mission and responsibilities of the regional office and announcements of Federal Register Notices on seasons, trip limits, and quotas. Provides information on fisheries statistics, trade data, canned tuna updates and status of tuna import quotas, and catch reports for various California fisheries. Japanese market reports are available on sablefish, shrimp, landings and wholesale prices, etc., and links to other pertinent sites of interest to fishery and seafood industries.

Southwest Fisheries Science Center - <http://swfsc.ucsd.edu/>. Descriptions of programs, laboratories, geographic scope, center organization, research vessels, upper level scientific/management staffs, publications, newsletters (tuna and billfish), and mission of the Center. Information on types of research being conducted on fishes, marine mammal, sea turtles, habitat and marine ecosystems. Also, updated NOAA's Resource Guide for Teachers of Marine Science is available for download.

=====

NOAA Public Affairs - <http://www.publicaffairs.noaa.gov/>. All NOAA and NMFS related Press Releases and links to other NOAA material available to the public. If you would like these releases through electronic mail rather than fax, send e-mail to jslaff@hq.noaa.gov.

SERVICES

NATIONAL MARINE FISHERIES SERVICE FISHERIES MARKET NEWS

FAX-ON-DEMAND SYSTEM

The National Marine Fisheries Service (NMFS) has collected market information at principal U.S. ports for 60 years. In an effort to provide a continuing high level of service to the seafood community this information is now available through the NMFS Fax-on-Demand Service. Up-to-date information on various landings data, wholesale values, foreign trade, cold storage holdings, trade leads, and Japanese market are now just a phone call away. The cost to you is a phone call, the service is free. Please feel free in helping NMFS spread the word about the Fax-on-Demand Service.

INSTRUCTIONS

1. You **must** place your call from a fax machine. At any fax machine, pick up handset (or use speaker phone capability, if so equipped) and using the fax machine's numeric keypad, dial the NMFS Fax Management System phone number:

301 - 713 - 1415

2. A human voice will greet you and welcome you to the NMFS Fax Management System and will immediately ask you to enter your **Fax Mailbox Number, followed by the pound (#) sign.** Respond by entering the mailbox number for Fisheries Market News:

200 #

3. After you are welcomed to the Fisheries Market News Fax Service you will be guided by a series of human voice prompts. First you are given the opportunity to **enter a document number (like those found on the document listing), followed by the pound (#) sign:**

Examples: For daily New York Fulton Market Fresh Prices, enter 21#
For most recent Cold Storage Report enter 71#

For a list of available documents (Menu of Document Choices), enter 1#

4. Follow remaining voice prompts for confirmation of selection(s) and entering additional document numbers. After you have selected the documents you want, you will be prompted to press the pound (#) key to proceed.
5. You will now be asked to press the **START or SEND** key on fax machine. Wait until you hear the typical fax tone indicating a good connection and hang up the handset.

Please call **(301-713-2328)** for further information or if you have any questions or problems.

NATIONAL MARINE FISHERIES SERVICE FISHERIES MARKET NEWS

FAX-ON-DEMAND MENU CHOICES -- MAILBOX #200

FAX: (301) 713-1415

DOCUMENT NUMBER	REPORT	UPDATE SCHEDULE
1	Menu Choices	
2*	Commonly Used Abbreviations	
5*	Trade Leads	Friday
	NEW YORK: Leo Gaudin (212) 620-3405	
21*	Fulton Market Fresh Prices	Daily
22*	New York Frozen Prices	Friday
	BOSTON: Jack French (617) 223-8018	
30	Boston Lobster Prices	Daily (exc.Weds.)
31*	New England Auction	Daily
32*	Boston Frozen Market Prices	Wednesday
33	New England Auction Summary	Friday
34	New England Cold Storage	Friday
	NEW ORLEANS: Maggie Bourgeois (504) 589-6151	
41	Gulf Shrimp Landings by Area and Species	Monday
42	Ex-Vessel Gulf Fresh Shrimp Prices and Landings	Monday
43	Gulf Finfish and Shellfish Landings	Monday
44*	Fish Meal and Oil Prices	Thursday
45*	Shrimp Statistics	Monthly
	LONG BEACH: Patricia Donley (310) 980-4033	
52	San Pedro, CA Market Prices	Friday
53	Canned Tuna Import Quota Update	Friday
	SEATTLE: John Bishop (206) 526-6119	
61	Wholesale Canned Salmon Prices (West Coast)	Tuesday
62*	Wholesale Shellfish Prices (West Coast)	Tuesday
63	Preliminary Oregon Landings	Tuesday
64	Halibut & Sablefish Total IFQ Landings	Weekly
65	Groundfish: Gulf of Alaska - Preliminary Catch	Weekly
66	Groundfish: Bering Sea & Aleutians - Preliminary Catch	Weekly
67	Oregon Landings & Exvessel Price	Monthly
68	Washington Landngs & Exvessel Price	Monthly
	NMFS HEADQUARTERS: William Uttley (301) 713-2328	
71*	National Cold Storage	Monthly
72	West Coast Cold Storage	Monthly
74*	Imports of Shrimp	Monthly
75*	Imports of Frozen Fish Blocks	Monthly
76*	Fish Meal and Oil Production	Quarterly
77*	Purse-Seine Landings of Menhaden	Monthly
78*	Imports of Selected Fishery Products	Monthly
79*	Exports of Selected Fishery Products	Monthly
	JAPANESE DATA: Long Beach - Sunee C. Sonu (310) 980-4038	
81	Japanese Shrimp Imports	Monthly
82	Japanese Fishery Imports	Monthly
83	Japanese Fishery Exports	Monthly
84	Japanese Cold Storage Holdings	Monthly
85	Tokyo Wholesale Shrimp Prices	Bi-weekly
86	Tokyo Wholesale Prices	Bi-weekly
87	Fish Landings and Average Ex-vessel Prices	Monthly
88	Sales Volume and Average Wholesale Prices	Monthly

UPDATE SCHEDULES: 3:00 pm ET.

*NOTE:--Accessible via (internet) - <http://www.st.nmfs.gov/st1/>

SEA GRANT EXTENSION SERVICE

The Office of Sea Grant is a major program element of the National Oceanic and Atmospheric Administration. The National Sea Grant College Program is funded jointly by the Federal Government and colleges or universities. Sea Grant's Extension Service offers a broad range of information concerning the Nation's fisheries to recreational and commercial fishermen, fish processors, and others. The following program leaders, listed alphabetically by State, can provide information on Sea Grant activities:

Rick Wallace, Coordinator
Alabama Sea Grant Extension
Auburn University Marine
Extension & Research Center
4170 Commander's Drive
Mobile, AL 36615
(334) 438-5690 FAX: 438-5670

Donald E. Kramer, Extension/MAP Leader
Alaska Sea Grant College Program
2221 East Northern Lights #110
Anchorage, AK 99508
(907) 274-9691 FAX: 277-5242

Christopher M. DeWees, Coordinator
Sea Grant Extension Program
Department of Wildlife and Fisheries
University of California A5 - Davis
Davis, CA 95616
(916) 752-1497 FAX: 752-4154

Judith Doino Lemus, Extension Leader
Univ. of Southern California Sea Grant Program
Hancock Institute of Marine Studies, Univ. Park
Los Angeles, CA 90089
(213) 740-1965 FAX: 740-5936

Nancy Balcom, Interim Extension Leader
Sea Grant Extension Program
University of Connecticut
1084 Shennecossett Road
Groton, CT 06340
(860) 405-9107 FAX: 485-9109

James Falk, Extension Leader
Delaware Sea Grant College Prog.
Marine Advisory Service
700 Pilotown Road
Lewes, DE 19958
(302) 645-4235 FAX: 645-4213

Marion L. Clarke, Leader
Florida Sea Grant Extension
University of Florida - Bldg. 803
P.O. Box 110405
Gainesville, FL 32611
(352) 392-1837 FAX: 392-5113

Keith Gates, Extension Leader
Georgia Sea Grant College Program
715 Bay Street
Brunswick, GA 31520
(912) 264-7268 FAX: 264-7312

Bruce J. Miller, Assoc. Dir.
Director, Extension / Pacific Programs,
Sea Grant Extension Service, Univ. of HI
1000 Pope Road, MSB 227
Honolulu, HI 96822
(808) 956-8645 FAX: 956-2858

Brian Miller, Extension Leader
Illinois/Indiana Sea Grant Program
Forestry & Natural Resources
Purdue University - Forestry Bldg.
West Lafayette, IN 47907
(912) 264-7268 FAX: 264-7312

Michael Liffman, Assist. Dir.
Louisiana Sea Grant College Program
Louisiana State University
136 Wetland Resources Building
Baton Rouge, LA 70803
(504) 388-6290 FAX: 388-6331

Ron Beard, Extension Leader
Maine Sea Grant College Program
21 Coburn Hall, Univ. Of ME
Orono, ME 04469
(207) 581-1440 FAX: 581-1423

Douglas Lipton, Extension Leader
Maryland Sea Grant College Program
2218B Symons Hall - Univ. of MD
College Park, MD 20742
(301) 405-1280 FAX: 314-9032

Cliff Goudey, Extension Leader
MIT Sea Grant College Program
E38-324 / Kendall Square
292 Main Street
Cambridge, MA 02139
(617) 253-7079 FAX: 258-5730

Dale Leavitt, Extension Leader
WHOI Sea Grant Program
Mail Stop #2, Coastal Research Lab.
Woods Hole Oceanographic Institute
Woods Hole, MA 02543
(508) 289-2997 FAX: 457-2172

John Schwartz, Extension Leader
Michigan Sea Grant College Prog.
Michigan State University
334 Natural Resource Building
East Lansing, MI 48824
(517) 355-9637 FAX: 353-6496

SEA GRANT EXTENSION SERVICE

Jeffery Gunderson, Extension Leader
Minnesota Sea Grant
University of Minnesota - Duluth
208 Washburn Hall
Duluth, MN 55812
(218) 726-8715 FAX: 726-6556

David C. Veal, Extension Leader
Mississippi Sea Grant
Coastal Research/Extension Center
2710 Beach Blvd., Suite 1-E
Biloxi, MS 39531
(601) 338-4710 FAX: 388-1375

Brian E. Doyle, Extension Leader
New Hampshire Sea Grant
University of NH - Kingman Farm
Durham, NH 03824
(603) 749-1565 FAX: 743-3997

Eleanor Bochenek, Extension Leader
New Jersey Sea Grant College Program
Building #22
Fort Hancock, NJ 07732
(732) 872-1300 ext:31 FAX:872-9573

Dale R. Baker, Extension Leader
New York Sea Grant
340 Roberts Hall - Cornell Univ.
Ithaca, NY 14853
(607) 255-2832 FAX: 255-2812

Frank Lichtkoppler, Co-Leader
Ohio Sea Grant Extension
Lake County Extension Office
99 East Erie Street
Painesville, OH 44077
(216) 350-2582 FAX: 350-5928

Frederic L. Snyder, Co-Leader
Ohio Sea Grant Extension
Camp Perry
Building 3, Room 12
Port Clinton, OH 43452
(419) 635-4117 FAX: 292-4364

Eric C. Obert, Coordinator
Pennsylvania Sea Grant Extension Project
Station Road
Erie, PA 16563
(814) 898-6420 FAX: 898-6462

Steve Olson, Extension Leader
Sea Grant - North Carolina State Univ.
105 1911 Building - Box 8605
Raleigh, NC 27695
(919) 515-2454 FAX 515-7095

Jay Rasmussen, Program Leader
Oregon Extension Sea Grant
Hatfield Marine Science Center

2030 S. Marine Science Drive
Newport, OR 97365
(541) 867-0368 FAX: 867-0369

Eric C.Obert, Extension Leader
Pennsylvania Sea Grant College Program
Station Road
Erie, PA 16563
(814) 898-6420 FAX: 898-6462

Ruperto Chaparro, Extension Leader
Sea Grant College Program
University of Puerto Rico
P.O. Box 5000
Mayaguez, PR 00681
(787) 832-8045 FAX: 265-2880

Kathy Castro, Extension Coordinator
Rhode Island Sea Grant Extension
Graduate School of Oceanography
South Ferry Road, Univ. of Rhode Island
Narragansett, RI 02882
(401) 874-6800 FAX: 789-8340

Bob Bacon, Extension Leader
South Carolina Sea Grant
Marine Extension Program
287 Meeting Street
Charleston, SC 29401
(803) 727-2075 FAX: 727-2080

Russell Miget, Acting Extension Coordinator
Texas Sea Grant College Program
6300 Ocean Drive, Suite 280
Corpus Christi, TX 78412
(512) 980-3460 FAX: 980-3465

Lawrence K. Forcier, Coordinator
Vermont Sea Grant Extension Project
University of Vermont
601 Main Street
Burlington, VT 05401
(802) 656-2980 FAX: 656-8642

Wm. D. DuPaul, Extension/MAP Coordinator
Virginia Sea Grant College Program - VIMS
Gloucester Point, VA 23062
(804) 684-7164 FAX: 684-7161

Michael S. Spranger, Extension Leader
Washington Sea Grant HG-30 - WA Univ.
3716 Brooklyn Avenue, N.E.
Seattle, WA 98105
(206) 685-9291 FAX: 685-0380

Allen H. Miller, Extension/MAS Leader
Wisconsin Sea Grant Institute - WS Univ.
201 Goodnight Hall - Madison Campus
1975 Willow Drive
Madison, WI 53706
(608) 262-0644 FAX: 263-0591

National Sea Grant Depository
(Clearinghouse for all Sea Grant Publications)
Pell Library - University of Rhode Island - Bay Campus
Narragansett, RI 02882
PHONE: 401-874-6114
FAX: 874-6160

ANADROMOUS SPECIES. These are species of fish that mature in the ocean, and then ascend streams to spawn in freshwater. In the Magnuson Act, these species include, but are not limited to, Atlantic and Pacific salmon, steelhead trout, and striped bass. See 42 FR 60682, Nov. 28, 1977.

ANALOG PRODUCTS. These include imitation and simulated crab, lobster, shrimp, scallops, and other fish and shellfish products fabricated from processed fish meat (such as surimi).

AQUACULTURE. The farming of aquatic organisms in marine, brackish or fresh water. Farming implies private or corporate ownership of the organism and enhancement of production by stocking, feeding, providing protection from predators, or other management measures. Aquaculture production is reported as the weight and value of cultured organisms at their point of final sale.

BATTER-COATED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a batter containing a leavening agent and mixture of cereal products, flavoring, and other ingredients, and partially cooked in hot oil a short time to expand and set the batter.

BOAT, OTHER. Commercial fishing craft not powered by a motor, e.g., rowboat or sailboat, having a capacity of less than 5 net tons. See motorboat.

BREADED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a non-leavened mixture containing cereal products, flavorings, and other ingredients. Breaded products are sold raw or partially cooked.

BREADED SHRIMP. Peeled shrimp coated with breading. The product may be identified as fantail (butterfly) and round, with or without tail fins and last shell segment; also known as portions, sticks, steaks, etc., when prepared from a composite unit of two or more shrimp pieces whole shrimp or a combination of both without fins or shells.

BUTTERFLY FILLET. Two skin-on fillets of a fish joined together by the belly skin. See fillets.

CANNED FISHERY PRODUCTS. Fish, shellfish, or other aquatic animals packed in cans, or other containers, which are hermetically sealed and heat-sterilized. Canned fishery products may include milk, vegetables, or other products. Most, but not all, canned fishery products can be stored at room temperature for an indefinite time without spoiling.

COMMERCIAL FISHERMAN. An individual who derives income from catching and selling living resources taken from inland or marine waters.

CONSUMPTION OF EDIBLE FISHERY PRODUCTS. Estimated amount of commercially landed fish, shellfish, and other aquatic animals consumed by the civilian population of the United States. Estimates are on an edible-weight basis and have been adjusted for beginning and ending inventories of edible fishery products. Consumption includes U.S. production of fishery products from both domestically caught and imported fish, shellfish, other edible aquatic plants, animals, and imported products and excludes exports and purchases by the U.S. Armed Forces.

CONTINENTAL SHELF FISHERY RESOURCES. These are living organisms of any sedentary species that at the harvestable stage are either (a) immobile on or under the seabed, (b) unable to move except in constant physical contact with the seabed or subsoil of the continental shelf. The Magnuson Act now lists them as certain abalones, surf clam and ocean quahog, queen conch, Atlantic deep-sea red crab, dungeness crab, stone crab, king crabs, snow (tanner) crabs, American lobster, certain corals, and sponges.

CURED FISHERY PRODUCTS. Products preserved by drying, pickling, salting, or smoking; not including canned, frozen, irradiated, or pasteurized products. Dried products are cured by sun or air-drying; pickled or salted products are those products preserved by applying salt, or by pickling (immersing in brine or in a vinegar or other preservative solution); smoked products are cured with smoke or a combination of smoking and drying or salting.

DEFLATED VALUE. The deflated values referred to in this document are calculated with the Gross Domestic Products Implicit Price Deflator. The base year for this index is 1987.

EDIBLE WEIGHT. The weight of a seafood item exclusive of bones, offal, etc.

EEZ. See U.S. Exclusive Economic Zone.

EL NINO. This anomalous ocean warming of the eastern Equatorial Pacific occurs at time intervals varying from 2-10 years. El Nino conditions result in an accumulation of warm water off South America which reduced the upwelling of nutrient-rich water necessary to support fisheries production. These conditions extended northward to the U.S. Pacific Coast. In addition to affecting the food available for fish, El Nino appears to alter the normal ranges, distributions, and migrations of fish populations.

EUROPEAN UNION. Belgium and Luxembourg, Denmark, Federal Republic of Germany, Greece, France, Ireland, Italy, Netherlands, Portugal, Spain, and United Kingdom. This was formerly known as European Economic Community (EEC).

EXPORT VALUE. The value reported is generally equivalent to f.a.s. (free alongside ship) value at the U.S. port of export, based on the transaction price, including inland freight, insurance, and other charges incurred in placing the merchandise alongside the carrier at the U.S. port of exportation. The value excludes the cost of loading, freight, insurance, and other charges or transportation cost beyond the port of exportation.

EXPORT WEIGHT. The weight of individual products as exported, i.e., fillets, steaks, whole, breaded, etc. Includes both domestic and foreign re-exports data.

EXVESSEL PRICE. Price received by the harvester for fish, shellfish, and other aquatic plants and animals.

FISH BLOCKS. Regular fish blocks are frozen blocks or slabs of fillets or pieces of fillets cut or sliced from fish. Minced fish blocks are frozen blocks or slabs of minced flesh produced by a meat and bone separating machine.

FISH FILLETS. The sides of fish that are either skinned or have the skin on, cut lengthwise from the backbone. Most types of fillets are boneless or virtually boneless; some may be labeled as "boneless fillets."

FISH MEAL. A high-protein animal feed supplement made by cooking, pressing, drying, and grinding fish or shellfish.

FISH OIL. An oil extracted from body (body oil) or liver (liver oil) of fish and marine mammals; mostly a byproduct of fish meal production.

FISH PORTION. A piece of fish flesh that is generally of uniform size with thickness of 3/8 of an inch or more and differs from a fish stick in being wider or of a different shape. A fish portion is generally cut from a fish block.

FISH SOLUBLES. A water-soluble protein byproduct of fish meal production. Fish solubles are generally condensed to 50 percent solids and marketed as "condensed fish solubles."

FISH STEAK. A cross-section slice cut from a large dressed fish. A steak is usually about 3/4 of an inch thick.

FISH STICK. An elongated piece of breaded fish flesh weighing not less than 3/4 of an ounce and not more than 1-1/2 ounces with the largest dimension at least three times that of the next largest dimension. A fish stick is generally cut from a fish block.

FISHERY MANAGEMENT PLAN (FMP). A plan developed by a Regional Fishery Management Council, or the Secretary of Commerce under certain circumstances, to manage a fishery resource in the U.S. EEZ pursuant to the MFCMA (Magnuson Act).

FISHING CRAFT, COMMERCIAL. Boats and vessels engaged in capturing fish, shellfish, and other aquatic plants and animals for sale.

FULL-TIME COMMERCIAL FISHERMAN. An individual who receives more than 50 percent of their annual income from commercial fishing activities, including port activity, such as vessel repair and re-gripping.

GROUNDFISH. Broadly, fish that are caught on or near the sea floor. The term includes a wide variety of bottom fishes, rockfishes, and flatfishes. However, NMFS sometimes uses the term in a narrower sense. In "Fisheries of the United States," the term applies to the following species--Atlantic and Pacific: cod, hake, ocean perch, and pollock; cusk; and haddock.

IMPORT VALUE. Value of imports as appraised by the U.S. Customs Service according to the Tariff Act of 1930, as amended. It may be based on foreign market value, constructed value, American selling price, etc. It generally represents a value in a foreign country, and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise to the United States.

IMPORT WEIGHT. The weights of individual products as received, i.e., fillets, steaks, whole, headed, etc.

INDUSTRIAL FISHERY PRODUCTS. Items processed from fish, shellfish, or other aquatic plants and animals that are not consumed directly by humans. These items contain products from seaweeds, fish meal, fish oils, fish solubles, pearl essence, shark and other aquatic animal skins, and shells.

INTERNAL WATER PROCESSING (IWP). An operation in which a foreign vessel is authorized by the governor of a state to receive and process fish in the internal waters of a state. The Magnuson Act refers to internal waters as all waters within the boundaries of a state except those seaward of the baseline from which the territorial sea is measured.

JOINT VENTURE. An operation authorized under the MFCMA (Magnuson Act) in which a foreign vessel is authorized to receive fish from U.S. fishermen in the U.S. EEZ. The fish received from the U.S. vessel are part of the U.S. harvest

LANDINGS, COMMERCIAL. Quantities of fish, shellfish, and other aquatic plants and animals brought ashore and sold. Landings of fish may be in terms of round (live) weight or dressed weight. Landings of crustaceans are generally on a live-weight basis except for shrimp which may be on a heads-on or heads-off basis. Mollusks are generally landed with the shell on, but for some species only the meats are landed, such as sea scallops. Data for all mollusks are published on a meat-weight basis.

MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT. Public Law 94-265, as amended. The Magnuson Act provides a national program for the conservation and management of fisheries to allow for an optimum yield (OY) on a continuing basis and to realize the full potential of the Nation's fishery resources. It established the U.S. Exclusive Economics Zone (EEZ) (formerly the FCZ - Fishery Conservation Zone) and a means to control foreign and certain domestic fisheries through PMPs and FMPs. Within the U.S. EEZ, the United States has exclusive management authority over fish (meaning finfish, mollusks, crustaceans, and all other forms of marine animal and plant life other than marine mammals, birds, and highly migratory species of tuna). The Magnuson Act provides further exclusive management authority beyond the U.S. EEZ for all continental shelf fishery resources and all anadromous species throughout the migratory range of each such species, except during the time they are found within any foreign nation's territorial sea or fishery conservation zone (or the equivalent), to the extent that such a sea or zone is recognized by the United States.

MARINE RECREATIONAL FISHING. Fishing for pleasure, amusement, relaxation, or home consumption.

MARINE RECREATIONAL CATCH. Quantities of finfish, shellfish, and other living aquatic organisms caught, but not necessarily brought ashore, by marine recreational fisherman.

MARINE RECREATIONAL FISHERMEN. Those people who fish in marine waters primarily for recreational purposes. Their catch is primarily for home consumption, although occasionally a part or all of their catch may be sold and enter commercial channels. This definition is used in the NMFS Marine Recreational Fishery Statistics Survey, and is not intended to represent a NMFS policy on the sale of angler-caught fish.

MAXIMUM SUSTAINABLE YIELD (MSY). MSY from a fishery is the largest annual catch or yield in terms of weight of fish caught by both commercial and recreational fishermen that can be taken continuously from a stock under existing environmental conditions. A determination of MSY, which should be an estimate based upon the best scientific information available, is a biological measure necessary in the development of optimum yield.

METRIC TONS. A measure of weight equal to 1,000 kilograms, 0.984 long tons, 1.1023 short tons, or 2,204.6 pounds.

MOTORBOAT. A motor-driven commercial fishing craft having a capacity of less than 5 net tons, or not officially documented by the Coast Guard. See "boat, other."

NORTHWEST ATLANTIC FISHERIES ORGANIZATION (NAFO). This convention, which entered into force January 1, 1979, replaces ICNAF. NAFO provides a forum for continued multilateral scientific research and investigation of fishery resources that occur beyond the limits of coastal nations' fishery jurisdiction in the northwest Atlantic, and will ensure consistency between NAFO management measures in this area and those adopted by the coastal nations within the limits of their fishery jurisdiction.

OPTIMUM YIELD (OY). In the MFCMA (Magnuson Act), OY with respect to the yield from a fishery, is the amount of fish that (1) will provide the greatest overall benefit to the United States, with particular reference to food production and recreational opportunities; and (2) is prescribed as such on the basis of maximum sustainable yield from such fishery, as modified by any relevant ecological, economic, or social factors.

PACKAGED FISH. A term used in NMFS publications prior to 1972 to designate fresh or frozen raw fish fillets and steaks.

PART-TIME COMMERCIAL FISHERMAN. An individual who receives less than 50 percent of their annual income from commercial fishing activities.

PER CAPITA CONSUMPTION. Consumption of edible fishery products in the United States divided by the total civilian population. In calculating annual per capita consumption, estimates of the civilian resident population of the United States on July 1 of each year are used. These estimates are taken from current population reports, series P-25, published by the U.S. Bureau of the Census.

PER CAPITA USE. The use of all fishery products, both edible and nonedible, in the United States divided by the total population of the United States.

PRELIMINARY FISHERY MANAGEMENT PLAN (PMP). The Secretary of Commerce prepares a PMP whenever a foreign nation with which the United States has made a Governing International Fishery Agreement (GIFA) submits an application to fish in a fishery not managed by an FMP. A PMP is replaced by an FMP as soon as the latter is implemented. A PMP applies only to foreign fishing.

RE-EXPORTS. Re-exports are commodities which have entered the U.S. as imports and are subsequently exported in substantially the same condition as when originally imported.

RETAIL PRICE. The price of fish and shellfish sold to the final consumer by food stores and other retail outlets.

ROUND (LIVE) WEIGHT. The weight of fish, shellfish, or other aquatic plants and animals as taken from the water; the complete or full weight as caught. The tables on world catch found in this publication include, in the case of mollusks, the weight of both the shells and the meats, whereas the tables on U.S. landings include only the weight of the meats.

SURIMI. Minced fish meat (usually Alaska pollock) which has been washed to remove fat and undesirable matters (such as blood, pigments, and odorous substances), and mixed with cryoprotectants, such as sugar and/or sorbitol, for a good frozen shelf life.

TOTAL ALLOWABLE LEVEL OF FOREIGN FISHING (TALFF). The TALFF, if any, with respect to any fishery subject to the exclusive fishery management authority of the United States, is that portion of the optimum yield of such fishery which will not be harvested by vessels of the United States, as determined by provisions of the MFCMA.

U.S. EXCLUSIVE ECONOMIC ZONE (EEZ). The MFCMA (Magnuson Act) defines this zone as contiguous to the territorial sea of the United States and extending seaward 200 nautical miles measured from the baseline from which the territorial sea is measured. This was formerly referred to as the FCZ (Fishery Conservation Zone).

U.S.-FLAG VESSEL LANDINGS. Includes landings by all U.S. fishing vessels regardless of where landed as opposed to landings at ports in the 50 United States. These include landings at foreign ports, U.S. territories, and foreign vessels in the U.S. FCZ under joint venture agreements. U.S. law prohibits vessels constructed or registered in foreign countries to land fish catches at U.S. ports.

U.S. TERRITORIAL SEA. A zone extending 3 nautical miles from shore for all states except Texas and the Gulf Coast of Florida where the seaward boundary is 3 marine leagues (9 nautical miles).

USE OF FISHERY PRODUCTS. Estimated disappearance of the total supply of fishery products, both edible and nonedible, on a round-weight basis without considering beginning or ending stocks, exports, military purchases, or shipments to U.S. territories.

VESSEL. A commercial fishing craft having a capacity of 5 net tons or more. These craft are either enrolled or documented by the U.S. Coast Guard and have an official number assigned by that agency.

WHOLESALE FISH AND SHELLFISH PRICES. Those prices received at principal fishery markets by primary wholesalers (processors, importers, and brokers) for customary quantities, free on board (f.o.b.) warehouse.

STATISTICAL SUBJECT INDEX

(Reference gives page number)

AQUACULTURE

Production 23

CLAMS

Aquaculture, 23

Canned, 55

Exports, 70, 84

Frozen holdings, 59, 61

Imports, 63, 84

Landings, 3, 12, 18, 84

Supply, 84

Value of landings, 3, 12, 18, 84

COLD STORAGE

Holdings, monthly, 58 - 61

CONSUMPTION

Canned, 88, 89

Cured, 88

Fillets and steaks, 89

Fresh and frozen, 88

Per capita, U.S., 88

Per capita, use, 92

Salmon, canned, 89

Sardines, canned, 89

Shellfish, canned, 89

Shrimp, 89

Sticks and portions, 89

Tuna, canned, 89

World, 90

CRABS

Canned, 55, 82

Exports, 70, 75, 82

Frozen holdings, 59, 61

Imports, 63, 82

Landings, 3, 12, 18, 21, 22

Supply, 82

Value of landings, 3, 12, 18, 21, 22

World catch, 50

CRAFT FISHING

Number, by region and state, 96

DISPOSITION OF LANDINGS

United States, 5

World, 50

EMPLOYMENT

Processors and wholesalers, 97

Region and State, 97

EXPORTS

All fishery products, 70

Crabs, 70, 75

Crabmeat, 70, 75

Continent and country, by, 72

Cured, 70

Edible, by years, 71

Fish meal, 70, 76, 86

Herring, 70

Nonedible, by years, 72

Oils, 70, 76, 86

Principal items, 70

Salmon, canned, 70, 74, 81

Salmon, whole or eviscerated, 70, 74

Sardines, canned, 70, 81

Shrimp, canned, 70, 85

Shrimp, domestic and foreign products, 73, 85

Shrimp, fresh and frozen, 70, 73

Snow (tanner) crab, 82

Value, by years, 71

Volume, by years, 71

World, by country, 51

FLOUNDERS

Fillets, 54

Frozen holdings, 58, 60

Landings, 1, 8, 14

Value of landings, 1, 8, 14

GROUNDFISH FILLETS

AND STEAKS

Exports, 70

Fillets, supply, 79

Imports, 63, 79

HALIBUT

Fillets and steaks, 54

Frozen holdings, 58, 60

Landings, 1, 9, 15

Value of landings, 1, 9, 15

HERRING SEA

Canned (sardines), 55

Consumption (sardines), per capita, 89

Landings, 1, 9, 15

Exports (sardines), 70

Imports (sardines), 63

HERRING SEA - Continued

Value of landings, 1, 9, 15

World catch, 50

IMPORTS

All fishery products, 63, 64

Blocks and slabs, 63, 66

Clams, canned, 63

Continent and country, by, 65

Crabmeat, canned, fresh and frozen, 63, 82

Cured, 63

Edible, 63, 64, 65, 78, 79

Fillets, groundfish, 63, 66, 79

Fillets, other than groundfish and ocean perch, 63

Finfish, 70

Groundfish, 63, 66, 79

Herring, canned, 63

Industrial, 77, 78

Lobsters, canned, 63

Lobsters, fresh and frozen, 63

Meal and scrap, 63, 69

Nonedible, 63, 64, 65

Oils, 63, 86

Oysters, canned, 63

Principal items, 63

Quota, canned tuna, not in oil, 67

Salmon, canned, 63, 81

Salmon, fresh and frozen, 63

Sardines, canned, 63, 81

Scallop meats, 63, 84

Shellfish, 78

Shrimp, by country, 68

Shrimp, by products, 69

Tuna, canned, 63, 67, 81

Tuna, fresh and frozen, 63, 80

Value, by years, 64

Volume, by year, 64

World, by country, 51

INSPECTION

Establishments and amount inspected, 98

LANDINGS

Disposition, 5

Foreign shores, off, 8, 14

Human food (edible), 5

Industrial, 5

(Reference gives page number)

LANDINGS

Months, by, 5
Ports, major U.S., 7
Record year, by states, 6
Species, 1, 8, 14
State and region, current, 6
Territory, 20
U.S. shores, distance from, 8, 14
World, 47, 48, 49, 50

LOBSTERS, AMERICAN

Imports, 63, 83
Landings, 4, 12, 18, 83
Supply, 83
Value of landings, 4, 12, 18

LOBSTER, SPINY

Frozen holdings, 59, 61
Imports, 63, 83
Landings, 4, 12, 18, 21, 22, 83
Supply, 83
Value of landings, 4, 12, 18, 21, 22

MACKERELS

Landings, 1, 9, 15, 20
Value of landings, 1, 9, 15, 20
World catch, 50

MAGNUSON FISHERY

CONSERVATION AND

MANAGEMENT ACT (MFCMA)

Fishery Management Plan, 101
Fees, foreign fishing, 100
General description, 100
Optimum yield by species, 103
Regional Fishery Management Councils, 102

MEAL AND SCRAP

Exports, 70, 76
Imports, 63, 69
Production, U.S., 57
Supply, 86
World disposition, 50

MENHADEN

Landings, 1, 9, 15
Value of landings, 1, 9, 15

OIL

Exports, 70, 86
Imports, 63, 86
Production, 57
Supply, 86
World disposition, 50

OYSTERS

Aquaculture, 23
Canned, 55
Imports, 63, 84
Landings, 4, 12, 18, 20, 21
Supply, 84
Value of landings, 4, 12, 18, 20, 21
World catch, 50

PLANTS AND FIRMS

Employment, 97
Processors and wholesalers, 97

PRICES

Exvessel index, 95

PROCESSING

Animal food and bait, canned, 53, 56
Canned products, 55, 56, 70
Clams, canned, 55
Crabs, canned, 55, 82
Employment in, 97
Fillets and steaks, fresh and frozen, 54
Frozen holdings, 58 - 61
Industrial products, 57
Meal, oil, 53, 57
Oysters, canned, 55
Plants, number of, 97
Salmon canned, 55
Sardines, canned, 55
Shrimp, canned, 55

PROCESSING-Continued

Sticks, portions, and breaded shrimp, 53

RECREATIONAL FISHERIES

Harvest by species, 29
Harvest by species and by fishing mode, 32
Harvest by species and by distance from shore, 36
Harvest and live releases by year, 40
Harvest and live releases by state, 45
MRFSS, program description, 26
Number of anglers by state, 46
Number of fishing trips by state, 46
Statistical survey coverage, 28
Statistical data types/definitions, 26

SALMON

Aquaculture, 23
Canned, 55, 81
Consumption, per capita, 89
Exports, 70, 74
Fillets and steaks, 54
Frozen holdings, 58, 60
Imports, 63
Landings, 2, 10, 16
Supply, canned, 81
Value of landings, 2, 10, 16
World catch, 50

SARDINES

Canned, 55, 81
Consumption, per capita, 89
Exports, 70, 81
Imports, 63, 70
Landings, 2, 10, 16
Supply, canned, 81
World catch, 50

SCALLOPS

Exports, 70, 84
Imports, 63, 84
Landings, 4, 13, 19
Supply, 84
Value of landings, 4, 13, 19
World catch, 50

SHRIMP

Aquaculture, 23
Breaded, 53
Canned, 55, 63, 85
Consumption, per capita, 89
Exports, 70, 73, 85
Frozen holdings, 59, 61
Imports, 63, 68, 69, 85
Landings, head-off, 85
Landings, head-on, 4, 13, 19, 21
Supply, canned, 85
Supply, total, 85
Value of landings, 4, 13, 19, 21
World catch, 50

SUPPLY

All fishery products, 77, 78
Blocks, 79
Clam meats, 84
Crabs, 82
Crabmeat, 82
Edible fishery products, 77, 78
Fillets and steaks, all, 79
Fillets and steaks, groundfish, 79
Finfish, 78
Industrial products, 77, 78
Lobsters, American, 83
Lobsters, spiny, 83
Meal, 86
Oils, 86
Oysters, 84
Salmon, canned, 81
Sardines, canned, 81
Scallop meats, 84
Shellfish, 78
Shrimp, 85
Tuna, 80

SWORDFISH

Landings, 3, 11, 17, 22
Value of landings, 3, 11, 17, 22

TUNA

Canned, 55, 63, 67
Consumption, per capita, 89
Exports, 70
Imports, 63, 67, 81
Landings, 3, 11, 17, 21, 22
Quota, imports, canned, 67
Supply, canned, 80
Value of landings, 3, 11, 17, 21, 22
World catch, 50

USE

Per capita, 92
Landings, by month, 5
Valued added, 93

WHITING

Frozen holdings, 58, 60
Landings, 1, 9, 15
Value of landings, 1, 9, 15

WORLD FISHERIES

Aquaculture, 47
Catch by countries, 48
Catch by continents, 49
Catch by major fishing areas, 49
Catch by species groups, 50
Catch by years, 47
Catch by water type, 47
Consumption, 90
Disposition, 50
Imports and exports value, 51

Federal Inspection Marks for Fishery Products

NATIONAL FISHERY PRODUCTS INSPECTION PROGRAM. The U.S. Department of Commerce (USDC), National Marine Fisheries Service, a part of the National Oceanic and Atmospheric Administration, conducts a voluntary seafood inspection program on a fee-for-service basis. A HACCP-based service is also available. Services provided by the program include vessel and plant sanitation, product inspection and grading, label reviews, product specification reviews, laboratory analyses, training, education and information. Inspection and certification services are available nationwide and in U.S. territories for all interested parties. Consultative services are provided in foreign countries. Inspection and certification services are also provided for imported and exported products. The USDC Seafood Inspection Division also provides HACCP training, plan development, implementation assistance, and verification service to industry (domestic and foreign) for the purpose of demonstrating compliance with FDA's HACCP rule (21 CFR Parts 123 and 1240) regarding "Procedures for the Safe and Sanitary Processing and Importing of Fish and Fishery Products" which was implemented December 18, 1997.

USERS OF INSPECTION SERVICES. The users of the voluntary seafood inspection service include vessel owners, processors, distributors, brokers, retailers, food service operators, exporters, importers, and those who have a financial interest in buying and selling seafood products. The U.S. Department of Agriculture recommends that USDC inspected products be purchased for its food feeding programs. The **USDC APPROVED LIST OF FISH ESTABLISHMENTS AND PRODUCTS**, published bi-annually, provides a listing of products and participants who contract with USDC.

USDC INSPECTION MARKS. These marks designate the level and the type of inspection performed by the federal inspector. The marks can be used in advertising and labeling under the guidelines provided by the Seafood Inspection Division and in accordance with federal and state regulations regarding advertising and labeling. Products bearing the USDC official marks have been certified as being safe, wholesome, and properly labeled.

"US GRADE A" MARK. The U.S. GRADE A mark signifies that a product has been processed under federal inspection in an approved facility and meets the established level of quality of an existing U.S. grade standard. The U.S. Grade A mark indicates that the product is of high quality, uniform in size, practically free from blemishes and defects, in excellent condition and possessing good flavor and odor.

"PROCESSED UNDER FEDERAL INSPECTION" MARK. The PUFI mark or statement signifies that the product has been inspected in an approved facility and was found to be safe, wholesome and properly labeled according to approved specifications or criteria. The language within the PUFI mark has been amended to "Processed Under Federal Inspection" to reflect actual inspection procedures and the regulatory requirements for use of the mark.

"LOT INSPECTED" MARK. A new USDC Lot Inspected mark was created to replace the "Officially Sampled" and "Accepted Per Specifications" lot inspection marks used on retail labels. The latter marks were no longer allowed/accepted after September 30, 1997. The use of the new mark meets the needs of both industry and consumers by conveying that the products bearing the mark have been examined by the USDC Program.

"RETAIL" MARK. In response to requests made by industry, a new mark has been created for retail or food service establishments. Participants qualify for use of the "Retail Mark" by receiving the USDC HACCP-based service or being under contract for sanitation services and associated product evaluation. Usage of such a mark will give the retail industry the opportunity to advertise on their banners, logos, or menus that their facility has been recognized by USDC for proper sanitation and handling of fishery products.



USDC HACCP MARK. The USDC HACCP-based service is available to all interested parties on a fee-for-service basis. Label approval, record keeping and analytical testing are program requirements. An industry USDC-certified employee trained in HACCP principles is also required for each facility/site in the program. Compliance ratings determine frequency of official visits. Benefits to participants include increased controls through a more scientific approach, use of established marks, increased efficiency of federal inspection personnel, and enhanced consumer confidence. The USDC has made available a HACCP mark and a "banner" to distinguish products that have been produced under the HACCP-based program. The HACCP banner must be used as an attachment to existing inspection grade marks. Establishments meeting HACCP program requirements may use these marks in conjunction with promotional material, packaging, point-of-sale notices, and menus.

FOR FURTHER INFORMATION:

U.S. Department of Commerce, NOAA/NMFS
Seafood Inspection Division - F/SF6
1315 East-West Highway
Silver Spring, MD 20910
(301) 713-2355 (FAX: 713-1081)
Toll Free: 1-800-422-2750
Internet: <http://seafood.ssp.nmfs.gov/iss/issue.html>

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service F/RE1
1315 East West Highway
Silver Spring, MD 20910-3282

OFFICIAL BUSINESS

Current Fishery Statistics No. 9900

Fisheries of the United States, 1999

October 2000



U.S. DEPARTMENT
OF COMMERCE

National Oceanic and
Atmospheric Administration

National Marine
Fisheries Service

Fisheries **of the** **United States**

1999

National Marine Fisheries Service
Office of Science and Technology
Fisheries Statistics and Economics Division

Mark C. Holliday, Chief

Barbara K. O'Bannon, Editor

Silver Spring, Maryland

October 2000



U.S. DEPARTMENT OF COMMERCE

Norman Y. Mineta, Secretary

National Oceanic and Atmospheric Administration

D. James Baker, Under Secretary

National Marine Fisheries Service

Penelope D. Dalton, Assistant Administrator

Preface

FISHERIES OF THE UNITED STATES, 1999

This publication is a preliminary report for 1999 on commercial and recreational fisheries of the United States with landings from the U.S. territorial seas, U.S. Exclusive Economic Zone (EEZ), and on the high seas. This annual report provides timely answers to frequently asked questions.

SOURCES OF DATA

Information in this report came from many sources. Field offices of the National Marine Fisheries Service (NMFS), with the generous cooperation of the coastal States, collected and compiled data on U.S. commercial landings and processed fishery products.

The NMFS Fisheries Statistics and Economics Division in Silver Spring, MD, managed the collection and compilation of recreational statistics, in cooperation with various States and Interstate Fisheries Commissions, and tabulated and prepared all data for publication. Sources of other data appearing in this publication are: U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Coast Guard, U.S. Customs Service, U.S. Department of the Interior, U.S. Department of Agriculture, and the Food and Agriculture Organization (FAO) of the United Nations.

PRELIMINARY AND FINAL DATA

Data on U.S. commercial landings, employment, prices, production of processed products, and recreational catches are preliminary for 1999. Final data will be published in other NMFS Current Fishery Statistics publications.

The Fisheries Statistics and Economics Division of NMFS takes this opportunity to thank states, industry, and foreign nations who provided the data that made this publication possible. Program leaders of the field offices were: Gregory Power, Bob Morrill and Gene Steady New England, Middle Atlantic, and Chesapeake; Scott Nelson, National Biological Service Science Center, Great Lakes States; Linda Hardy, Guy Davenport, Maggie Bourgeois, and Margot Hightower for the South Atlantic and Gulf States; Patricia J. Donicy, California and Hawaii; John K. Bishop, Oregon and Washington; and David Ham assisting Gary Christofferson of the Pacific State Marine Fisheries Commission for Alaska.

NOTES

The time series of U.S. catch by species and distance from shore included in this year's "Fisheries of the U.S." is estimated by the National Marine Fisheries Service.

As in past issues of this publication, the units of quantity and value are defined as follows unless otherwise noted: U.S. landings are shown in round weight (except mollusks which are in meat weight); quantities shown for U.S. imports and exports are in product weight, as reported by the U.S. Bureau of the Census; the value of the U.S. domestic commercial landings is exvessel, in the Review Section on important species, deflated exvessel prices are shown. The deflated value was computed using the Gross Domestic Products Implicit Price Deflator; the value for U.S. imports is generally the market value in the foreign (exporting) country and, therefore, excludes U.S. import duties, freight charges from the foreign country to the United States, and insurance; the value for exports is generally the value at the U.S. port of export, based on the selling price, including inland freight, insurance, and other charges. Countries and territories shown in the U.S. foreign trade section are established for statistical purposes in the Tariff Schedules of the United States Annotated (International Trade Commission) and reported by the U.S. Bureau of the Census.

SUGGESTIONS

The Fisheries Statistics and Economics Division wishes to provide the kinds of data sought by users of fishery statistics, and welcomes comments or suggestions that will improve this publication.

Address all comments or questions to:

Fisheries Statistics and Economics Division, (F/ST1)
National Marine Fisheries Service, NOAA
1315 East-West Highway - Rm. 12340
Silver Spring, MD 20910-3282
PHONE: 301-713-2328
FAX: 301-713-4137

Members of the Fisheries Statistics and Economics Division in Silver Spring who helped with this publication were: Daryl Bullock, Tina Chang, Vicky Cornish, Rita Curtis, Terri DeLloyd, Josanne Fabian, Karen Foster, Brad Gentner, Kirk Gillis, Eva Hairston, Laurie Hamilton, Dennis Hansford, Rob Hicks, John Hoey, Deborah Hogans, Mark Holliday, Steven Koplin, Alan Lowther, Sharon Newman, Barbara O'Bannon, Maury Osborn, Liz Pritchard, David Sutherland, Glen Taylor, Margaret Toner, William Utley, David Van Voorhees, John Ward, and Lelia Wise. A special thanks to Katherine Zecca from our Seattle Office for assisting us in developing a new format.

Contents

PREFACE AND ACKNOWLEDGMENT	ii	Crab.....	73
REVIEW	iv	Crabmeat.....	73
U.S. COMMERCIAL FISHERY LANDINGS:		Industrial.....	74
Species.....	1	U.S. SUPPLY:	
Disposition.....	5	Edible and nonedible.....	75
Regions and states.....	6	Finfish and shellfish.....	76
Ports.....	7	All fillets and steaks.....	77
Catch by species and distance-from- shore (thousand pounds).....	8	Groundfish fillets and steaks.....	77
Catch by species and distance-from- shore (metric tons).....	14	Tuna, fresh and frozen.....	78
U.S. Landings for territorial possessions.....	20	Canned sardines.....	79
U.S. Aquaculture production, estimated 1993-98.....	23	Canned salmon.....	79
U.S. MARINE RECREATIONAL FISHERIES:		Canned tuna.....	79
Harvest by species.....	29	King crab.....	80
Harvest by mode of fishing and species group.....	32	Snow (tanner) crab.....	80
Harvest by distance-from-shore and species group.....	36	Canned crabmeat.....	80
Harvest and total live releases by species group.....	40	Lobster, American.....	81
Finfish harvest and releases by state.....	45	Lobster, spiny.....	81
Number of anglers and trips by state.....	46	Clams.....	82
WORLD FISHERIES:		Oysters.....	82
Aquaculture and commercial catch.....	47	Scallops.....	82
Species groups.....	47	Shrimp.....	83
Countries.....	48	Industrial.....	84
Fishing areas.....	48	PER CAPITA:	
Imports and exports, by leading countries.....	49	U.S. Consumption.....	86
U.S. PRODUCTION OF PROCESSED FISHERY PRODUCTS:		Canned products.....	87
Value.....	51	Certain items.....	87
Fish sticks, fish portions, and breaded shrimp.....	51	World, by region and country.....	88
Fillets and steaks.....	52	U.S. Use.....	90
Canned.....	53	VALUE ADDED.....	91
Industrial.....	55	PRICES, INDEX OF EXVESSEL.....	93
U.S. COLD STORAGE HOLDINGS	56	EMPLOYMENT, CRAFT, AND PLANTS.....	94
U.S. IMPORTS:		MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT OF 1976 (MFCMA):	
Principal items.....	61	General.....	96
Edible and nonedible.....	62	Optimum yield, U S capacity, reserve, and allocations.....	99
Continent and country.....	63	GENERAL ADMINISTRATIVE INFORMATION- NATIONAL MARINE FISHERIES SERVICE	
Blocks.....	64	Administrative Offices.....	100
Groundfish fillets and steaks, species.....	64	Region Offices.....	102
Canned tuna and quota.....	65	Statistical Port Agents.....	104
Shrimp, country of origin.....	66	PUBLICATIONS:	
Shrimp, by product type.....	67	NOAA Library Services.....	107
Industrial.....	67	Government Printing Office.....	107
U.S. EXPORTS:		National Marine Fisheries Service — National Technical Information Service.....	108
Principal items.....	68	SERVICES:	
Edible and nonedible.....	69	National Marine Fisheries Service:	
Continent and country.....	70	NMFS HomePages.....	116
Shrimp.....	71	Sea Grant Marine Advisory.....	118
Lobsters.....	71	Inspection.....	Inside back cover
Salmon.....	72	GLOSSARY.....	120
Surimi.....	72	INDEX.....	124

U.S. LANDINGS

Commercial landings (edible and industrial) by U.S. fishermen at ports in the 50 states were 9.3 billion pounds or 4.2 million metric tons valued at \$3.5 billion in 1999—an increase of 145.1 million pounds (up 2 percent) and \$338.6 million (up 11 percent) compared with 1998. Finfish accounted for 84 percent of the total landings, but only 45 percent of the value. The 1999 exvessel price paid to fishermen was 37 cents compared to 34 cents in 1998.

Commercial landings by U.S. fishermen at ports outside the 50 states provided an additional 422.5 million pounds (191,600 metric tons) valued at \$134.9 million. This was a 6 percent, or a 26.6 million pound (12,000 metric ton) increase in quantity, but a decrease of \$29.7 million (18 percent) in value compared with 1998. The vast majority of foreign port landings (>99%) consisted of tuna landed in Canada, Puerto Rico, American Samoa and other foreign ports. Minor landings also occurred for halibut, snappers, sharks, and swordfish.

Edible fish and shellfish landings in the 50 states were 6.8 billion pounds (3.1 million metric tons) in 1999—a decrease of 341.0 million pounds (155,000 metric tons) compared with 1998.

Landings for reduction and other industrial purposes were 2.5 billion pounds (1.1 million metric tons) in 1999—an increase of 24 percent compared with 1998.

The 1999 U.S. marine recreational finfish catch (including fish kept and fish released (discarded)) on the Atlantic, Gulf, and Pacific coasts was an estimated 328.8 million fish taken on an estimated 56.9 million fishing trips. The harvest (fish kept and released dead) was estimated at 135.7 million fish weighing 198.7 million pounds.

WORLD LANDINGS

In 1998, the most recent year for which data are available, world commercial fishery landings and aquaculture were 117.2 million metric tons—a decrease of 5.2 million metric tons (down 4 percent) compared with 1997.

China was the leading nation with 32.5 percent of the total harvest; Japan, second with 5.1 percent; India, third with 4.5 percent; United States, fourth with 4.4 percent; and the Russian Federation, fifth with 3.9 percent.

PRICES

The 1999 annual exvessel price index for edible fish decreased by 2 percent, shellfish increased by 11 percent, and industrial fish remained unchanged when compared with 1998. Exvessel price indices increased for 19 of the 33 species groups being tracked, and decreased for 6 species groups. The bluefin tuna price index had the largest increase (149 percent) while the 'other shrimp' price index showed the largest decrease (54 percent).

PROCESSED PRODUCTS

The estimated value of the 1999 domestic production of edible and nonedible fishery products was \$7.3 billion, \$27.3 million less than in 1998. The value of edible products was \$6.7 billion—a decrease of \$51.9 million compared with 1998. The value of industrial products was \$607.7 million in 1999—an increase of \$24.6 million compared with 1998.

FOREIGN TRADE

The total import value of edible and nonedible fishery products was \$17.0 billion in 1999—an increase of \$1.4 billion compared with 1998. Imports of edible fishery products (product weight) were 3.9 billion pounds (1.8 million metric tons) valued at \$9.0 billion in 1999—an increase of 240.9 million pounds and \$840.7 million compared with 1998. Imports of nonedible (i.e., industrial) products were \$8.0 billion—an increase of \$566.2 million compared with 1998.

Total export value of edible and nonedible fishery products was \$10.0 billion in 1999—an increase of \$1.3 billion compared with 1998. United States firms exported 2.0 billion pounds (889.6 metric tons) of edible products valued at \$2.8 billion—an increase of 297.2 million pounds, and \$588.8 million compared with 1998. Exports of nonedible products were valued at \$7.2 billion, \$720.9 million more than 1998.

SUPPLY

The U.S. supply of edible fishery products (domestic landings plus imports, round weight equivalent, minus exports) was 10.3 billion pounds (4.7 million metric tons) in 1999—a decrease of 133.3 million pounds (1 percent) compared with 1998. The supply of industrial fishery products was 1.8 billion pounds (836 million metric tons) in 1999—an increase of 295.5 million pounds (19 percent) compared with 1998.

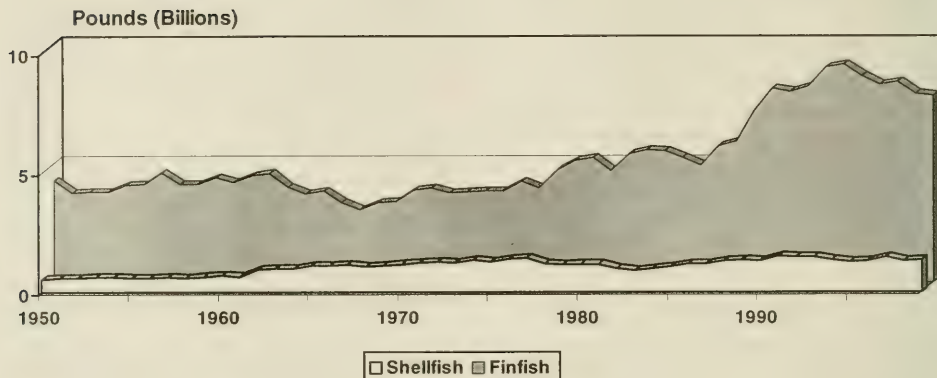
PER CAPITA CONSUMPTION

U.S. consumption of fishery products was 15.3 pounds of edible meat per person in 1999, up 0.4 pound from the 1998 per capita consumption of 14.9 pounds.

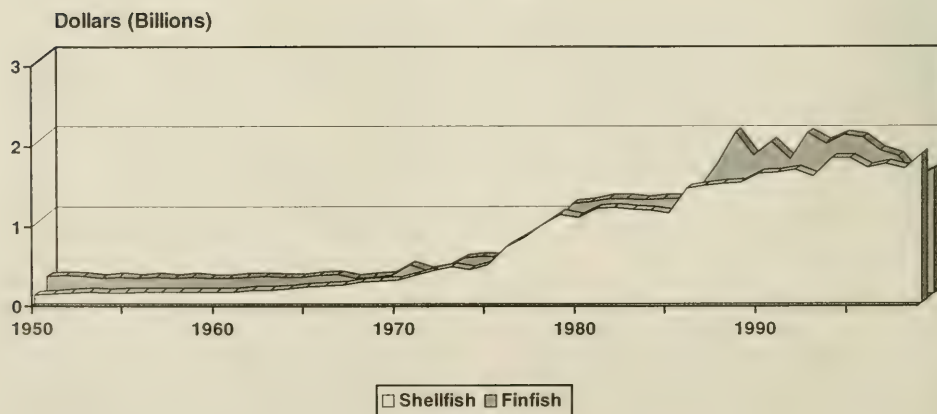
CONSUMER EXPENDITURES

U.S. consumers spent an estimated \$52.3 billion for fishery products in 1999. The 1999 total includes \$35.6 billion in expenditures at food service establishments (restaurants, carry-outs, caterers, etc.); \$16.4 billion in retail sales for home consumption; and \$326.6 million for industrial fish products. By producing and marketing a variety of fishery products for domestic and foreign markets, the commercial marine fishing industry contributed \$27.2 billion (in value added) to the U.S. Gross National Product.

Volume of Domestic Finfish and Shellfish Landings 1950 - 1999



Value of U.S. Domestic Finfish and Shellfish Landings 1950 - 1999



Alaska led all states in volume with landings of 4.5 billion pounds, followed by Louisiana, 1.5 billion; California, 647.3 million pounds; Virginia, 460.3 million; and Washington, 392.6 million.

Alaska led all states in value of landings with \$1.1 billion, followed by Louisiana, \$302.7 million; Maine, \$265.2 million; Massachusetts, \$260.2 million; and Texas, \$209.2 million.

Dutch Harbor-Unalaska, Alaska, was the leading U.S. port in quantity of commercial fishery landings, followed by: Empire-Venice, Louisiana; Cameron, Louisiana; Reedville, Virginia; and Intercoastal City, Louisiana.

Dutch Harbor-Unalaska was also the leading U.S. port in terms of value, followed by: New Bedford, Massachusetts; Kodiak, Alaska; Brownsville-Port Isabel, Texas; and Empire-Venice, Louisiana.

Tuna landings by U.S.-flag vessels at ports outside the continental United States amounted to 422.3 million pounds. Halibut, shark, snappers, swordfish, and unclassified finfishes also were landed at ports outside the United States.

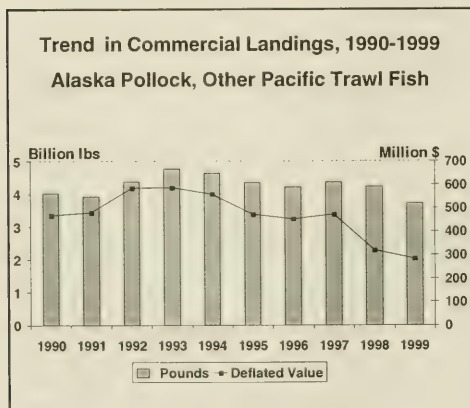
Major U.S. Domestic Species Landed in 1999 - Ranked By Quantity and Value (Numbers in thousands)

Rank	Species	Pounds	Rank	Species	Dollars
1	Pollock (walleye)	2,325,889	1	Shrimp	560,501
2	Menhaden	1,989,081	2	Crabs	521,237
3	Salmon	814,896	3	Salmon	359,785
4	Cod	545,432	4	Lobsters	352,711
5	Hakes	518,367	5	Pollock (walleye)	162,812
6	Crabs	458,307	6	Clams	135,024
7	Flounders	331,218	7	Scallops	129,350
8	Shrimp	304,173	8	Halibut	124,696
9	Herring (sea)	266,537	9	Menhaden	113,082
10	Squid	258,198	10	Cod	107,170

ALASKA POLLOCK AND OTHER PACIFIC TRAWL FISH

U.S. landings of Pacific trawl fish (Pacific cod, flounders, hake, Pacific ocean perch, Alaska pollock, and rockfishes) were 3.7 billion pounds valued at \$322.8 million—a decrease of 12 percent in quantity and a 10 percent decrease in value compared with 1998.

Landings of Alaska pollock decreased 14 percent to 2.3 billion pounds and were 16 percent lower than the 1994 - 1998 5 - year average. Landings of Pacific cod were 524.0 million pounds — a decrease of 6 percent from 556.0 million pounds in 1998. Pacific hake (whiting) landings were 478.2 million pounds (down 5 percent) valued at \$18.6 million (down 7 percent) compared to 1998. Landings of rockfishes were 63.2 million pounds (down 10 percent) and valued at \$30.5 million (down 8 percent) compared to 1998. The 1999 rockfish landings were 32 percent lower than the 5-year average.



ANCHOVIES

U.S. landings of anchovies were 11.7 million pounds—an increase of 8.3 million pounds (242 percent) compared with 1998. Ten percent of all landings were used for animal food or reduction and 86 percent were used for bait.

HALIBUT

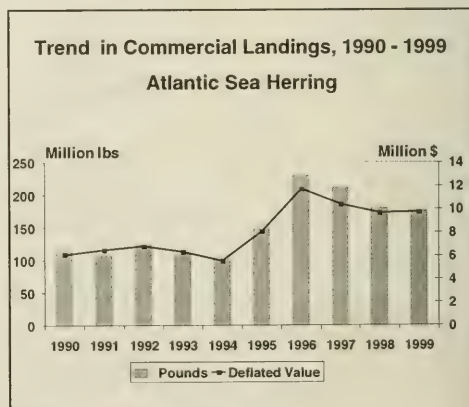
U.S. landings of Atlantic and Pacific halibut were 80.3 million pounds (round weight) valued at \$124.7 million—an increase of 7.1 million pounds (10 percent),

and \$20.8 million (20 percent) compared with 1998. The Pacific fishery accounted for all but 25,000 pounds of the 1999 total halibut catch. The average exvessel price per pound in 1999 was \$1.55 compared with \$1.42 in 1998.

HERRING, SEA

U.S. commercial landings of sea herring were 266.5 million pounds valued at \$26.1 million—a decrease of 5.5 million pounds (2 percent), but an increase of \$4.5 million (21 percent) compared with 1998. Landings of Atlantic sea herring were 175.5 million pounds valued at \$11.1 million—a decrease of 4.2 million pounds (2 percent), but an increase of \$225,000 (2 percent) compared with 1998.

Landings of Pacific sea herring were 91.1 million pounds valued at \$15.0 million—a decrease of 1.2 million pounds (1 percent), but an increase of \$4.3 million (40 percent) compared with 1998. Alaska landings accounted for 94 percent of the Pacific coast with 85.3 million pounds valued at \$12.8 million—a decrease of 1.5 million pounds (2 percent), but an increase of \$3.0 million (31 percent) compared with 1998.



JACK MACKEREL

California accounted for 85 percent, Washington for 10 percent, and Oregon for 5 percent of the U.S. landings of jack mackerel in 1999. Total landings were 2.5 million pounds valued at \$199,000—a decrease of 984,000 pounds (29 percent), and \$110,000 (35 percent)

compared with 1998. The 1999 average exvessel price per pound was 8 cents.

MACKEREL, ATLANTIC

U.S. landings of Atlantic mackerel were 26.6 million pounds valued at \$3.6 million—a decrease of 1.0 million pounds (4 percent) and \$1.1 million (24 percent) compared with 1998. New Jersey with 20.0 million pounds and Rhode Island with 4.3 million pounds accounted for 92 percent of the total landings. The average exvessel price per pound decreased to 13 cents in 1999 when compared to 17 cents in 1998.

MACKEREL, CHUB

Landings of chub mackerel were 19.2 million pounds valued at \$1.1 million—a decrease of 25.8 million pounds (57 percent) and \$1.5 million (58 percent) compared with 1998. The average exvessel price per pound was 6 cents, unchanged from 1998.

MENHADEN

The U.S. menhaden landings were 2.0 billion pounds valued at \$113.1 million—an increase of 283.4 million pounds (17 percent) and \$9.2 million (9 percent) compared with 1998. Landings decreased by 150.4 million pounds (25 percent) in the Atlantic states, but increased 433.8 million pounds (40 percent) in the Gulf states compared with 1998. Landings along the Atlantic coast were 458.6 million pounds valued at \$34.6 million. Gulf region landings were 1.5 billion pounds valued at \$78.5 million.

Menhaden are used primarily for the production of meal, oil, and solubles. Small quantities are used for bait and animal food.

NORTH ATLANTIC TRAWL FISH

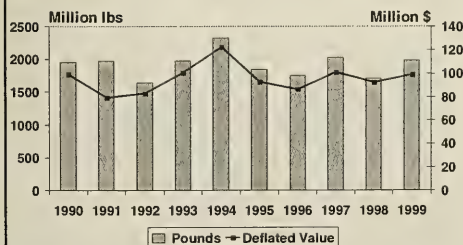
Landings of butterfish, Atlantic cod, cusk, flounders (winter/blackback, summer/fluke, yellowtail and other), haddock, red and white hake, ocean perch, pollock and whiting (silver hake) in the North Atlantic (combination of New England, Middle Atlantic, and Chesapeake Regions) were 132.6 million pounds valued at \$130.9 million—a decrease of 28.3 million pounds (18 percent), but an increase of \$10.4 million (9 percent) compared with 1998. Of these species, flounder led in total value in the North Atlantic, accounting for 50 percent of the total; followed by cod, 18 percent; and whiting, 11 percent.

The 1999 landings of Atlantic cod were 21.4 million pounds valued at \$23.9 million—a decrease of 3.1 million pounds (13 percent) and \$1.5 million (6 percent) compared with 1998. The exvessel price per pound was \$1.12 cents in 1999, up from \$1.04 per pound in 1998.

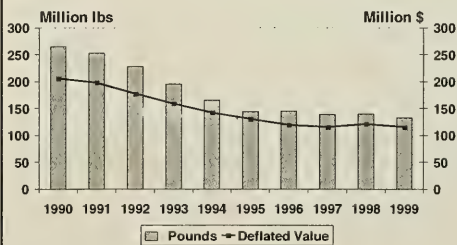
Landings of yellowtail flounder were 9.8 million pounds—an increase of 1.7 million pounds (21 percent) from 1998, and about 59 percent higher than its 5-year average.

Haddock landings increased to 6.9 million pounds (11 percent) and \$9.1 million (16 percent) compared to 1998.

Trend in Commercial Landings, 1990 - 1999
Atlantic and Gulf Menhaden



Trend in Commercial Landings, 1990 - 1999
North Atlantic Trawl Fish



North Atlantic pollock landings were 10.1 million pounds valued at \$8.4 million—a decrease of 2.2 million pounds (18 percent), but an increase of \$339,000 (4 percent) compared with 1998.

PACIFIC SALMON

U.S. commercial landings of salmon were 814.9 million pounds valued at \$360.8 million—an increase of 170.5 million pounds (26 percent) and \$103.3 million (40 percent) compared with 1998. Alaska and Washington accounted for 98 percent and 1 percent of the total landings, respectively. Sockeye salmon landings were 244.3 million pounds valued at \$233.3 million—an increase of 115.6 million pounds (89 percent) and \$82.5 million (55 percent) compared with 1998. Chinook salmon landings decreased to 15.3 million pounds—down 952,000 pounds (6 percent) from 1998. Pink salmon landings were 382.1 million pounds—an increase of 49.5 million (15 percent); chum salmon landings were 143.9 million—an increase of 13.0 million (10 percent); and coho salmon—a decrease of 29.2 million—a decrease of 6.7 million pounds (19 percent) compared with 1998.

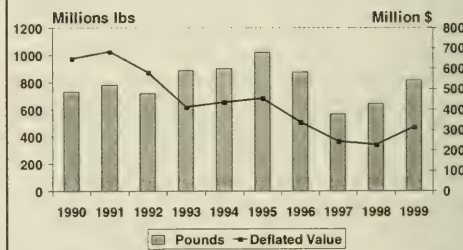
Alaska landings were 801.7 million pounds valued at \$346.7 million—an increase of 175.6 million pounds (28 percent) and \$104.0 million (43 percent) compared with 1998. The distribution of Alaska salmon landings by species in 1999 was: sockeye, 244.2 million pounds (30 percent); pink, 381.9 million pounds (48 percent); chum, 141.4 million pounds (18 percent); coho, 27.0 million pounds (3 percent); and chinook, 7.1 million pounds (1 percent). The exvessel price per pound for all species in Alaska was 43 cents in 1999—an increase of 4 cents from 1998.

Washington salmon landings were 7.0 million pounds valued at \$4.5 million—a decrease of 6.9 million pounds (49 percent), and \$4.6 million (50 percent) compared with 1998. The biennial fishery for pink salmon went from 3,000 pounds in 1998 to 203,000 pounds in 1999. Washington landings of chum salmon, 2.6 million pounds (down 64 percent), followed by chinook, 2.4 million pounds (up 24 percent); silver, 1.7 million pounds (up 13 percent); sockeye salmon were 123,000 pounds (down 97 percent) compared with 1998. The average exvessel price per pound for all species in Washington decreased from 66 cents in 1998 to 65 cents in 1999.

Oregon salmon landings were 1.5 million pounds valued at \$2.0 million—a decrease of 230,000 pounds (13 percent) and \$430,000 (17 percent) compared with 1998. Chinook salmon landings were 1.1 million pounds valued at \$1.6 million and coho landings were 474,000 pounds valued at \$396,000. In 1999, no landings of chum, pink or sockeye salmon were reported. The average exvessel price per pound for chinook salmon in Oregon increased from \$1.39 in 1998 to \$1.53 in 1999.

California salmon landings were 4.4 million pounds valued at \$7.4 million—an increase of 2.3 million pounds (111 percent) and \$4.4 million (147 percent) compared with 1998. Only landings of chinook salmon were reported for the State. The average exvessel price per pound paid to fishermen in 1999 was \$1.68 compared with \$1.44 in 1998.

Trend in Commercial Landings, 1990 - 1999
Pacific Salmon



SABLEFISH

U.S. commercial landings of sablefish were 48.3 million pounds valued at \$97.1 million—an increase of 4.8 million pounds (11 percent) and \$5.3 million (6 percent) compared with 1998. Landings decreased in Alaska to 33.3 million pounds—a decrease of 1 percent compared with 1998. Landings increased in Washington to 4.1 million pounds (up 38 percent) and \$5.7 million (up 47 percent). The 1999 Oregon catch was 6.6 million pounds (up 69 percent) and \$7.8 million (up 67 percent) compared with 1998. California landings of 4.3 million pounds and \$4.3 million represent a 36 percent increase in quantity and a 27 percent increase in

value from 1998. The average exvessel price per pound in 1999 was \$2.01 compared with \$2.11 in 1998.

TUNA

Landings of tuna by U.S. fishermen at ports in the 50 United States, Puerto Rico, American Samoa, other U.S. territories, and foreign ports were 480.4 million pounds valued at \$220.8 million—an increase of 922,000 pounds (less than 1 percent), but a decrease of \$36.4 million (14 percent) compared with 1998. The average exvessel price per pound of all species of tuna in 1999 was 46 cents compared with 54 cents in 1998.

Bigeye landings in 1999 were 15.2 million pounds—a decrease of 2.4 million pounds (13 percent) compared with 1998. The average exvessel price per pound was \$1.82 in 1999 compared with \$1.64 in 1998.

Skipjack landings were 333.6 million pounds—an increase of 61.0 million pounds (22 percent) compared with 1998. The average exvessel price per pound was 31 cents in 1999, compared to 38 cents in 1998.

Yellowfin landings were 96.2 million pounds—a decrease of 40.3 million pounds (30 percent) compared with 1998. The average exvessel price per pound was 50 cents in 1999 compared with 57 cents in 1998.

Bluefin landings were 2.7 million pounds—a decrease of 4.0 million pounds (60 percent) compared with 1999. The average exvessel price per pound in 1999 was \$5.79 compared with \$2.32 in 1998.

CLAMS

Landings of all species yielded 112.2 million pounds of meats valued at \$135.0 million—an increase of 4.3 million pounds (4 percent), but a decrease of \$213,000 (less than 1 percent) in value compared with 1998. The average exvessel price per pound in 1999 was \$1.20 compared with \$1.25 in 1998.

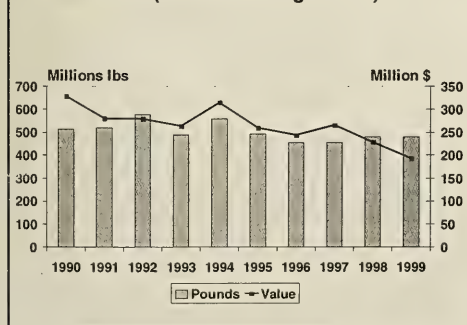
Surf clams yielded 58.8 million pounds of meats valued at \$30.4 million—an increase of 4.8 million pounds (9 percent) and \$1.2 million (4 percent) compared with 1998. New Jersey was the leading state with 49.3 million pounds (up 10 percent), followed by New York, 4.9 million pounds (up 26 percent) and Maryland, 3.7 million pounds (less than 1 percent) compared with 1998. The average exvessel price per pound of meats was 52 cents in 1999, down 2 cents from 1998.

The ocean quahog fishery produced 38.7 million pounds of meats valued at \$18.5 million—a decrease of 1.2 million pounds (3 percent) but an increase of \$177,000 (1 percent) compared with 1998. New Jersey had landings of 16.8 million pounds (up 7 percent) valued at \$7.2 million (up 7 percent) while Massachusetts production was 16.5 million pounds (down 14 percent) valued at \$6.9 million (down 14 percent). Together, they accounted for 86 percent of the total ocean quahog production in 1999. The average exvessel price per pound of meats increased from 46 cents in 1998 to 48 cents in 1999.

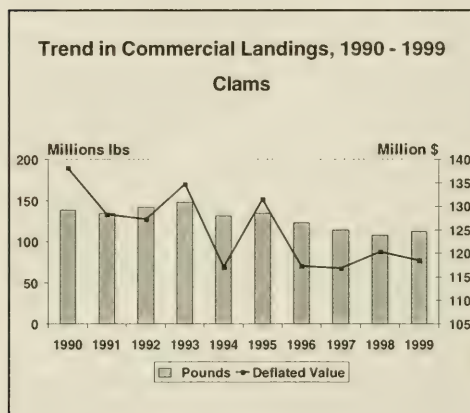
The hard clam fishery produced 8.4 million pounds of meats valued at \$44.8 million—an increase of 1.2 million pounds (17 percent) and \$3.0 million (7 percent) compared with 1998. Landings in the New England region were 2.4 million pounds of meats (down 1 percent); Middle Atlantic, 4.6 million pounds (up 45 percent); Chesapeake, 670,000 pounds (up 23 percent); and the South Atlantic region, 703,000 pounds (down 32 percent). The average exvessel price per pound of meats decreased from \$5.81 in 1998 to \$5.34 in 1999.

Soft clams yielded 2.7 million pounds of meats valued at \$12.4 million—a decrease of 160,000 pounds (6 percent), but an increase of \$161,000 (1 percent) compared with 1998. Maine was the leading state with 2.3 million pounds of meats (down 3 percent),

Trend in Commercial Landings, 1990 - 1999
Tuna (U.S. and Foreign Ports)



followed by New York with 229,000 pounds (up 10 percent), and Maryland with 114,000 pounds (down 48 percent). The average exvessel price per pound of meats was \$4.67 in 1999, compared with \$4.35 in 1998.



of the total landings. Washington landings were 10.6 million pounds (down 20 percent) or 30 percent of the total landings. California landings were 8.6 million pounds (down 19 percent) and Alaska landings were 3.9 million pounds (up 31 percent) compared with 1998. The average exvessel price per pound was \$2.01 in 1999 compared with \$1.81 in 1998.

U.S. landings of king crab were 16.9 million pounds valued at \$88.1 million—a decrease of 7.2 million pounds (30 percent), but an increase of \$30.7 million (54 percent) compared with 1998. The average exvessel price per pound in 1999 was \$5.21 compared with \$2.38 in 1998.

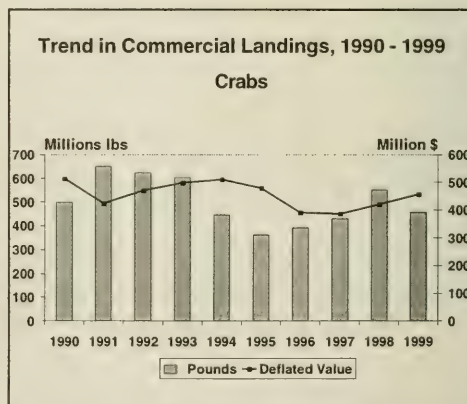
Snow (tanner) crab landings were 185.2 million pounds valued at \$165.8 million—a decrease of 66.7 million pounds (26 percent), but an increase of \$20.8 million (14 percent) compared with 1998. The average exvessel price per pound was 90 cents in 1999, up from 58 cents in 1998.

CRABS

Landings of all species of crabs were 458.3 million pounds valued at \$521.2 million—a decrease of 94.4 million pounds (17 percent), but an increase of \$47.9 million (10 percent) compared with 1998.

Hard blue crab landings were 196.5 million pounds valued at \$150.5 million—a decrease of 21.4 million pounds (10 percent), but an increase of \$1.3 million (1 percent) compared with 1998. North Carolina landed 29 percent of the total U.S. landings followed by: Maryland, 17 percent; Virginia, 15 percent; and Louisiana, 15 percent. Hard blue crab landings in the Chesapeake region were 63.2 million pounds—an increase of 2 percent; the South Atlantic with 71.6 million pounds decreased 10 percent; and the Gulf region with 51.5 million pounds decreased 21 percent. The Middle Atlantic region with 10.3 million pounds valued at \$8.7 million had a decrease of 771,000 pounds (7 percent) compared with 1998. The average exvessel price per pound of hard blue crabs was 77 cents in 1999, nine cents more than in 1998.

Dungeness crab landings were 35.4 million pounds valued at \$71.1 million—an increase of 1.2 million pounds (4 percent) and \$9.2 million (15 percent) compared with 1998. Oregon landings of 12.3 million pounds (up 66 percent) led all states with 35 percent



LOBSTER, AMERICAN

American lobster landings were 87.5 million pounds valued at \$323.0 million—an increase of 7.8 million pounds (10 percent) and \$69.3 million (27 percent) compared with 1998. Maine led in landings for the 18th consecutive year with 53.5 million pounds valued at \$184.6 million—an increase of 6.6 million pounds (14 percent) compared with 1998. Massachusetts, the second leading producer, had landings of 15.5 million pounds valued at \$66.8 million—an increase of 2.3 million pounds (17 percent) compared with 1998.

Together, Maine and Massachusetts produced 79 percent of the total national landings. The average exvessel price per pound was \$3.69 in 1999, compared with \$3.18 in 1998.

LOBSTERS, SPINY

U.S. landings of spiny lobster were 6.7 million pounds valued at \$29.8 million—an increase of 757,000 pounds (13 percent) and \$5.4 million (22 percent) compared with 1998. Florida, with landings of 6.1 million pounds valued at \$25.5 million, accounted for 91 percent of the total catch and 84 percent of the value. This was an increase of 897,000 pounds (17 percent), and \$5.7 million (29 percent) compared with 1998. Overall the average exvessel price per pound was \$4.45 in 1999 compared with \$4.11 in 1998.

OYSTERS

U.S. oyster landings yielded 27.0 million pounds of meats valued at \$72.7 million—a decrease of 6.6 million pounds (20 percent) and \$16.0 million (18 percent) compared with 1998. The Gulf region led in production with 15.8 million pounds of meats, 58 percent of the national total; followed by the Pacific (principally Washington, with 85 percent of the region's total volume) with 5.9 million pounds (22 percent); and the Chesapeake region with 2.9 million pounds (11 percent). The average exvessel price per pound of meats was \$2.69 in 1999 compared with \$2.64 in 1998.

SCALLOPS

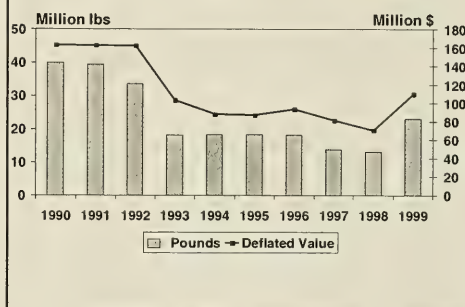
U.S. landings of bay, calico and sea scallops totaled 27.2 million pounds of meats valued at \$129.4 million—an increase of 14.0 million pounds (107 percent) and \$49.4 million (62 percent) compared with 1998. The average exvessel price per pound of meats decreased from \$6.10 in 1998 to \$4.76 in 1999.

Bay scallop landings were 35,000 pounds of meats valued at \$181,000—a decrease of 70,000 pounds (67 percent) and \$187,000 (51 percent) compared with 1998. The average exvessel price per pound of meats was \$5.17 in 1999 compared with \$3.50 in 1998.

Calico scallops were 4.1 million pounds valued at \$3.9 million. No comparison can be made with the 1998 data because they were confidential and cannot be publicly released.

Sea scallop landings were 23.0 million pounds of meats valued at \$125.3 million—an increase of 10.0 million pounds (76 percent) and \$45.7 million (57 percent) compared with 1998. Massachusetts and Virginia were the leading states in landings of sea scallops with 12.3 and 5.6 million pounds of meats, respectively, representing 77 percent of the national total. The average exvessel price per pound of meats in 1999 was \$5.44 compared with \$6.09 in 1998.

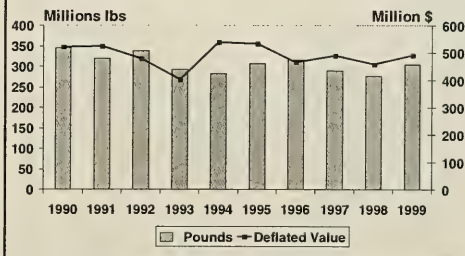
Trend in Commercial Landings, 1990 - 1999
Atlantic Sea Scallops



SHRIMP

U.S. landings of shrimp were 304.2 million pounds valued at \$560.5 million—an increase of 26.4 million pounds (10 percent) and \$44.9 million (9 percent) in value compared with 1998. Shrimp landings decreased in New England by 53 percent; but increased 26 percent in the South Atlantic and 3 percent in the Gulf.

Trend in Commercial Landings, 1990 - 1999
Shrimp



The landings in the Pacific increased 115 percent when compared with 1998. The average exvessel price per pound of shrimp decreased to \$1.84 in 1999 compared with \$1.86 in 1998. Gulf region landings were the nation's largest with 236.5 million pounds and 78 percent of the national total. Louisiana led all Gulf states with 118.8 million pounds (up 24 percent); followed by Texas, 70.0 million pounds (down 3 percent); Alabama, 17.7 million pounds (down 12 percent); Florida (West Coast), 15.5 million pounds (down 38 percent); and Mississippi, 14.5 million pounds (down 10 percent). In the Pacific region, Oregon had landings of 20.5 million pounds (up 228 percent); California had 6.4 million pounds (up 102 percent); and Washington had landings of 4.1 million pounds (up 35 percent) compared with 1998.

SQUID

U.S. commercial landings of squid were 258.2 million pounds valued at \$71.2 million—an increase of 158.7 million pounds (160 percent) and \$27.7 million (64 percent) compared with 1998. California was the leading state with 199.9 million pounds (77 percent) and was followed by Rhode Island with 29.0 million pounds (11 percent of the national total). The Pacific region landings were 200.4 million pounds (up 2624 percent); followed by New England, 34.0 million (down 16 percent); Middle Atlantic, 22.6 million pounds (down 54 percent); and the Chesapeake region with 937,000 pounds (down 41 percent) compared with 1998. The average exvessel price per pound for squid was 28 cents in 1999 compared with 44 cents in 1998.

U.S. Commercial Landings

U.S. DOMESTIC LANDINGS, BY SPECIES, 1998 AND 1999 (1)

Species	1998			1999			Average (1994-98)
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Fish							
Alewives	1,309	594	292	1,502	681	332	1,052
Anchovies	3,429	1,555	242	11,736	5,323	1,359	8,244
Atka mackerel	113,712	51,579	5,686	113,396	51,436	5,670	144,976
Bluefish	8,299	3,764	2,765	7,405	3,359	2,673	9,033
Blue runner	609	276	340	397	180	230	722
Bonito	2,596	1,178	917	374	170	216	1,673
Butterfish	5,684	2,578	2,848	6,090	2,762	3,068	7,912
Catfish and bullheads	11,590	5,257	5,251	20,359	9,235	8,799	11,802
Chubs	4,596	2,085	1,883	3,362	1,525	1,468	4,117
Cod:							
Atlantic	24,514	11,119	25,474	21,445	9,727	23,943	30,568
Pacific	555,993	252,197	87,717	523,987	237,679	83,227	574,861
Crevalle (jack)	875	397	487	711	323	409	418
Croaker:							
Atlantic	25,401	11,522	9,619	26,853	12,180	7,667	19,846
Pacific (white)	141	64	100	163	74	131	412
Cusk	780	354	512	508	230	384	1,375
Dolphinfish	922	418	1,375	1,262	572	1,930	1,705
Eels, American	1,015	460	3,971	1,080	490	1,644	1,056
Flounders:							
Arrowtooth	18,181	8,247	906	26,541	12,039	1,458	15,280
Winter (blackback)	11,244	5,100	15,110	10,260	4,654	12,987	10,647
Plaice, American	8,073	3,662	10,298	6,909	3,134	8,536	9,554
Summer (flake)	11,211	5,085	20,384	10,663	4,837	19,480	15,183
Sole:							
Dover	22,029	9,992	6,576	23,276	10,558	7,056	24,619
Flathead	41,637	18,886	801	31,566	14,318	465	25,156
Witch (gray)	4,089	1,855	6,539	4,682	2,124	6,610	4,685
Petrale	3,228	1,464	3,044	3,262	1,480	3,106	3,749
Rock	33,508	15,199	710	37,900	17,191	772	54,045
Yellowfin	177,471	80,500	3,553	125,287	56,830	2,507	236,155
Yellowtail	8,060	3,656	10,940	9,768	4,431	11,376	6,128
Atlantic/Gulf, Other	5,864	2,660	9,532	4,189	1,900	6,988	3,465
Pacific, Other	46,583	21,130	8,409	36,915	16,745	8,605	69,598
Total, flounders	391,178	177,437	96,804	331,218	150,239	89,946	461,243
Goosefish (anglerfish)	58,105	26,356	33,553	55,215	25,045	46,328	53,944
Groupers	9,841	4,464	20,853	12,687	5,755	26,165	10,581
Haddock	6,252	2,836	7,880	6,937	3,147	9,120	2,485
Hake:							
Pacific (whiting)	501,554	227,503	19,931	478,154	216,889	18,593	475,839
Red	2,961	1,343	769	3,431	1,556	919	3,116
Silver (Atl. whiting)	22,990	14,964	13,369	30,977	14,051	14,282	34,361
White	5,256	2,384	3,788	5,805	2,633	4,302	7,481
Halibut	73,260	33,231	103,974	80,330	36,437	124,696	58,983
Herring:							
Sea:							
Atlantic	179,721	81,521	10,856	175,478	79,596	11,082	167,202
Pacific	92,296	41,865	10,722	91,059	41,304	14,989	115,981
Thread	5,678	2,576	658	3,461	1,570	386	9,834
Jack mackerel	3,445	1,563	308	2,461	1,116	199	4,264

See notes at end of table.

(Continued)

U.S. Commercial Landings

U.S. DOMESTIC LANDINGS, BY SPECIES, 1998 AND 1999 (1) - Continued

Species	1998			1999			Average (1994-98)
Fish - Continued:	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Lingcod	1,454	660	927	1,392	631	1,007	3,877
Mackerel:							
Atlantic	27,588	12,514	4,704	26,560	12,048	3,572	26,970
Chub	45,025	20,423	2,547	19,217	8,717	1,082	29,740
King and cero	5,204	2,361	6,797	5,313	2,410	6,929	4,853
Spanish	3,216	1,459	1,807	3,004	1,363	1,925	4,249
Menhaden:							
Atlantic	608,974	276,229	46,979	458,556	208,000	34,564	675,046
Gulf	1,096,703	497,461	56,857	1,530,525	694,242	78,518	1,256,844
Total, menhaden	1,705,677	773,690	103,836	1,989,081	902,241	113,082	1,931,889
Mullet	17,921	8,129	9,420	15,336	6,956	8,486	21,475
Ocean perch:							
Atlantic	706	320	419	778	353	420	781,840
Pacific	40,663	18,445	4,072	45,402	20,594	3,640	39,084
Pollock:							
Atlantic	12,307	5,582	8,101	10,129	4,594	8,440	8,720
Walleye (Alaska)	2,716,458	1,232,177	190,152	2,325,889	1,055,016	162,812	2,765,839
Rockfishes:							
Bocaccio	1,314	596	518	434	197	198	--
Canary	2,894	1,313	1,469	1,702	772	813	--
Chilipepper	2,807	1,273	1,187	2,025	919	941	--
Widow	10,796	4,897	3,850	9,353	4,242	3,580	--
Yellowtail	7,940	3,602	3,006	7,646	3,468	2,937	--
Other	44,307	20,098	23,011	42,063	19,080	21,967	--
Total, rockfishes	70,058	31,778	33,041	63,223	28,678	30,436	92,726
Sablefish	43,500	19,731	91,823	48,255	21,888	97,148	58,723
Salmon, Pacific:							
Chinook or king	16,229	7,361	18,998	15,276	6,929	25,524	20,425
Chum or keta	130,939	59,394	22,662	143,949	65,295	25,739	163,490
Pink	332,577	150,856	45,580	382,091	173,315	52,431	335,856
Red or sockeye	128,742	58,397	150,835	244,349	110,836	233,308	258,829
Silver or coho	35,947	16,305	19,381	29,231	13,259	22,783	46,928
Total, salmon	644,434	292,313	257,456	814,896	369,634	359,785	825,528
Sardines:							
Pacific	93,875	42,581	3,613	132,153	59,944	5,263	76,482
Spanish	1,079	489	251	1,181	536	191	1,241
Scup or porgy	4,913	2,229	6,882	3,879	1,760	4,783	7,009
Sea bass:							
Black (Atlantic)	3,377	1,532	5,342	3,786	1,717	6,077	3,717
White (Pacific)	157	71	295	247	112	410	94
Sea trout or weakfish:							
Gray	8,423	3,821	4,060	6,935	3,146	4,188	7,170
Spotted	585	265	841	871	395	1,164	1,359
Sand (white)	123	56	80	210	95	108	214
Shad:							
American	4,375	1,984	1,715	2,635	1,195	1,148	3,243
Hickory	104	47	14	137	62	30	122
Sharks:							
Dogfish	49,111	22,277	8,139	36,712	16,652	5,951	52,122
Other	15,453	7,009	6,644	14,711	6,673	6,625	15,258
Sheepshead (Atlantic)	3,010	1,365	1,080	2,609	1,183	989	3,780

See notes at end of table.

(Continued)

U.S. Commercial Landings

U.S. DOMESTIC LANDINGS, BY SPECIES, 1998 AND 1999 (1) - Continued

Species	1998			1999			Average (1994-98)
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Fish - Continued:							
Skates	33,669	15,272	4,578	31,381	14,234	3,690	26,070
Smelts	1,817	824	643	1,702	772	913	2,505
Snapper:							
Red	4,257	1,931	9,899	4,722	2,142	10,492	4,251
Vermilion	1,059	480	2,280	1,614	732	3,474	1,345
Unclassified	3,614	1,639	7,021	3,991	1,810	7,712	5,246
Spearfish	296	134	174	473	215	397	1,839
Spot	7,404	3,358	2,934	5,729	2,599	2,191	7,270
Striped bass	6,715	3,046	9,699	6,625	3,005	10,987	4,572
Swordfish	15,093	6,846	28,888	16,022	7,268	33,436	13,972
Tenpounder (ladyfish)	2,151	976	1,178	4,337	1,967	1,997	-
Tilefish	3,801	1,724	6,011	2,070	939	4,040	3,487
Trout, rainbow	789	358	497	180	82	101	440
Tuna:							
Albacore	33,429	15,163	22,224	25,274	11,464	21,932	27,839
Bigeye	8,779	3,982	24,816	7,978	3,619	25,428	7,123
Bluefin	6,660	3,021	15,448	2,689	1,220	15,573	6,777
Little (tunny)	661	300	161	1,132	513	626	507
Skipjack	13,918	6,313	6,616	10,322	4,682	5,221	11,687
Yellowfin	20,832	9,449	24,791	10,286	4,666	17,076	21,286
Unclassified	720	327	406	439	199	398	571
Total, tuna	84,999	38,555	94,462	58,120	26,363	86,254	75,790
Whitefish, lake	12,519	5,679	9,418	11,802	5,353	9,982	11,999
Wolfish, Atlantic	652	296	321	568	258	242	843
Yellow perch	1,227	557	2,637	1,184	537	2,584	1,994
Other marine finfishes	52,313	23,729	35,388	47,649	21,613	32,769	69,661
Other freshwater finfishes	12,847	5,827	3,914	21,315	9,668	7,183	15,146
Total, fish	7,888,020	3,577,982	1,446,942	7,811,868	3,543,440	1,558,292	--
Shellfish							
Clams:							
Quahog (hard)	7,194	3,263	41,775	8,396	3,808	44,798	11,117
Geoduck (Pacific)	1,445	655	16,025	1,498	679	15,437	-
Manila	1,174	533	8,650	693	314	4,529	-
Ocean quahog	39,898	18,098	18,358	38,705	17,556	18,535	45,161
Softshell	2,815	1,277	12,235	2,655	1,204	12,397	2,503
Surf (Atlantic)	54,032	24,509	29,202	58,829	26,685	30,431	61,208
Other	1,401	635	8,992	1,454	660	8,897	1,437
Total, clams	107,959	48,970	135,237	112,230	50,907	135,024	118,750
Conch (snails)	1,872	849	2,448	3,329	1,510	3,991	4,114
Crabs:							
Blue: Hard	217,916	98,846	149,141	196,521	89,141	150,482	215,659
Soft and peeler	6,693	3,036	34,316	5,973	2,709	20,800	3,995
Dungeness	34,213	15,519	61,894	35,449	16,080	71,111	46,248
Jonah	2,768	1,256	1,359	3,414	1,549	1,651	1,664
King	24,122	10,942	57,366	16,920	7,675	88,075	17,956

See notes at end of table.

(Continued)

U.S. Commercial Landings

U.S. DOMESTIC LANDINGS, BY SPECIES, 1998 AND 1999 (1) - Continued

Species	1998			1999			Average (1994-98)
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Shellfish - Continued							
Crabs - Continued:							
Snow (tanner):							
Opilio	249,146	113,012	139,771	182,997	83,007	161,037	130,525
Bairdi	2,685	1,218	5,207	2,165	982	4,746	5,243
Other	15,173	6,882	24,324	14,868	6,744	23,335	15,685
Total, crabs	552,716	250,710	473,378	458,307	207,887	521,237	436,975
Crawfish (freshwater)	22,226	10,082	14,637	11,734	5,323	8,237	19,608
Horseshoe crab	7,170	3,252	2,159	5,286	2,398	1,474	3,976
Lobsters:							
American	79,642	36,125	253,636	87,469	39,676	322,957	73,605
Spiny	5,935	2,692	24,380	6,692	3,035	29,754	7,342
Mussels, blue (sea)	2,913	1,321	1,604	1,981	899	1,046	5,124
Oysters	33,538	15,213	88,627	26,983	12,239	72,658	37,034
Scallops:							
Bay	105	48	368	35	16	181	109
Calico, Atlantic	(3)	(3)	(3)	4,105	1,862	3,880	--
Sea	13,061	5,924	79,606	23,038	10,450	125,289	16,310
Shrimp:							
New England	8,132	3,689	7,697	3,812	1,729	3,579	13,133
South Atlantic	23,972	10,874	61,341	30,197	13,697	68,585	31,665
Gulf	229,962	104,310	429,169	236,476	107,265	464,178	216,016
Pacific	15,545	7,051	16,773	33,669	15,272	24,041	34,001
Other	146	66	636	19	9	118	66
Total, shrimp	277,757	125,990	515,616	304,173	137,972	560,501	294,889
Squid:							
Atlantic:							
Illex	50,082	22,717	9,463	16,169	7,334	3,852	38,002
Loligo	41,620	18,879	32,141	41,335	18,749	32,176	39,224
Unclassified	1,543	700	277	806	366	190	91,978
Pacific:							
Loligo	5,973	2,709	1,520	199,874	90,662	34,949	--
Unclassified	235	107	71	14	6	5	--
Total, Squid	99,453	45,112	43,472	258,198	117,118	71,172	201,564
Other shellfish	14,268	6,472	13,686	14,616	6,630	9,720	10,689
Total, Shellfish	1,218,615	552,760	1,648,854	1,318,176	597,921	1,867,121	--
Other							
Sea urchins	30,042	13,627	27,319	33,550	15,218	35,647	48,463
Seaweed, unclassified	56,318	25,546	982	174,162	78,999	525	--
Kelp (w/herring eggs)	315	143	1,017	521	236	1,543	426
Worms	660	299	3,355	757	343	3,956	--
Total, other	87,335	39,615	32,673	208,990	94,797	41,671	--
Grand Total, U.S.	9,193,970	4,170,357	3,128,469	9,339,034	4,236,158	3,467,084	--

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River drainage are not available.

(2) Less than \$500.

(3) Data are confidential and included with unclassified shellfish.

Note:—Data are preliminary. Totals may not add due to rounding. Data do not include landings by U.S.-flag vessels at Puerto Rico or other ports outside the 50 States. Data do not include aquaculture products, except oysters and clams. Metric tons are arrived at by dividing the landings of individual species and group totals by 2.2046.

U.S. Commercial Landings

DISPOSITION OF U.S. DOMESTIC LANDINGS, 1998 AND 1999

End Use	1998		1999	
	<u>Million</u> <u>pounds</u>	<u>Percent</u>	<u>Million</u> <u>pounds</u>	<u>Percent</u>
Fresh and frozen:				
For human food	6,574	71.5	6,046	64.7
For bait and animal food	296	3.2	370	4.0
Total	6,870	74.7	6,416	68.7
Canned:				
For human food	470	5.1	653	7.0
For bait and animal food	46	0.5	59	0.6
Total	516	5.6	712	7.6
Cured for human food	129	1.4	133	1.4
Reduction to meal, oil, other	1,679	18.3	2,078	22.3
Grand total	9,194	100.0	9,339	100.0

NOTE:—Data are preliminary. Table may not add due to rounding.

DISPOSITION OF U.S. DOMESTIC LANDINGS, BY MONTH, 1999

Month	Landings for human food		Landings for industrial purposes (1)		Total	
	<u>Million</u> <u>pounds</u>	<u>Percent</u>	<u>Million</u> <u>pounds</u>	<u>Percent</u>	<u>Million</u> <u>pounds</u>	<u>Percent</u>
January	436	6.4	51	2.0	487	5.2
February	968	14.2	36	1.4	1,004	10.8
March	597	8.7	31	1.2	628	6.7
April	297	4.3	129	5.1	426	4.6
May	326	4.8	271	10.8	597	6.4
June	386	5.6	410	16.4	796	8.5
July	774	11.3	432	17.2	1,206	12.9
August	1,208	17.7	376	15.0	1,584	17.0
September	788	11.5	386	15.4	1,174	12.6
October	689	10.1	220	8.8	909	9.7
November	209	3.1	86	3.4	295	3.2
December	154	2.3	79	3.2	233	2.5
Total	6,832	100.0	2,507	100.0	9,339	100.0

(1) Processed into meal, oil, solubles, and shell products, or used as bait and animal food.

U.S. COMMERCIAL LANDINGS OF FISH AND SHELLFISH, 1990-1999 (1)

Year	Landings for human food		Landings for industrial purposes (2)		Total	
	<u>Million</u> <u>pounds</u>	<u>Million</u> <u>dollars</u>	<u>Millions</u> <u>pounds</u>	<u>Million</u> <u>dollars</u>	<u>Millions</u> <u>pounds</u>	<u>Million</u> <u>dollars</u>
1990	7,041	3,366	2,363	156	9,404	3,522
1991	7,031	3,169	2,453	139	9,484	3,308
1992	7,618	3,531	2,019	147	9,637	3,678
1993	*8,214	3,317	2,253	154	10,467	3,471
1994	7,936	3,714	2,525	95	10,461	3,809
1995	7,667	3,625	2,121	145	9,788	3,770
1996	7,474	3,355	2,091	132	9,565	3,487
1997	7,244	3,285	2,598	163	9,842	3,448
1998	7,173	3,009	2,021	119	9,194	3,128
1999	6,832	3,265	2,507	202	9,339	3,467

(1) Statistics on landings are shown in round weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are shown in weight of meats (excluding the shell).

(2) Processed into meal, oil, solubles, and shell products, or used as bait or animal food.

*Record. Record—For industrial purposes 1983, 3,201 million lb.

NOTE:—Data are preliminary. Data do not include landings outside the 50 States or products of aquaculture, except oysters and clams.

U.S. Commercial Landings

U.S. DOMESTIC LANDINGS, BY REGION AND BY STATE, 1998 AND 1999 (1)

Regions and States	1998		1999		Record Landings	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Year	Thousand pounds
New England:	595,611	537,442	583,863	655,377	-	-
Maine	183,905	216,431	229,633	265,236	1950	356,266
New Hampshire	10,143	11,178	11,258	12,542	-	(2)
Massachusetts	252,518	204,408	198,336	260,239	1948	649,696
Rhode Island	131,420	71,066	126,206	79,270	1957	142,080
Connecticut	17,625	34,359	18,430	38,090	1930	88,012
Middle Atlantic:	261,686	181,177	225,278	180,673	-	-
New York	57,532	84,323	48,175	76,049	1880	335,000
New Jersey	195,918	90,919	168,676	97,731	1956	540,060
Delaware	7,898	5,882	8,427	6,893	1953	367,500
Pennsylvania	338	53	-	-	-	(2)
Chesapeake:	653,365	179,869	527,407	172,012	-	-
Maryland	61,468	67,190	67,118	63,759	1890	141,607
Virginia	591,897	112,679	460,289	108,253	1990	786,794
South Atlantic:	239,912	197,010	230,971	198,347	-	-
North Carolina	182,161	104,777	154,869	97,304	1981	432,006
South Carolina	17,304	28,292	17,773	29,265	1965	26,611
Georgia	13,017	23,737	11,234	21,100	1927	47,607
Florida, East Coast	27,430	40,204	47,095	50,678	-	(2)
Gulf:	1,536,583	718,925	1,945,063	757,857	-	-
Florida, West Coast	87,010	148,356	83,792	146,976	-	(2)
Alabama	30,081	46,985	27,399	50,415	1973	36,744
Mississippi	210,775	48,434	267,546	48,526	1985	439,518
Louisiana	1,119,500	291,893	1,480,045	302,735	1984	1,931,027
Texas	89,217	183,257	86,281	209,205	1960	237,684
Pacific Coast:	5,843,268	1,235,709	5,765,700	1,422,258	-	-
Alaska	4,858,052	951,479	4,492,649	1,105,946	1993	5,905,638
Washington	418,985	123,223	392,555	98,471	1994	527,804
Oregon	230,125	50,341	233,177	67,590	1992	256,912
California	336,106	110,666	647,319	150,251	1936	1,760,193
Great Lakes:	27,116	16,274	23,843	16,009	-	-
Illinois	98	98	86	50	-	(2)
Indiana	-	-	-	-	-	(2)
Michigan	14,831	8,862	13,546	9,339	1930	35,580
Minnesota	427	224	443	197	-	(2)
New York	1	2	1	2	-	(2)
Ohio	4,733	2,618	3,932	2,186	1936	31,083
Pennsylvania	35	52	32	43	-	(2)
Wisconsin	6,991	4,418	5,803	4,192	-	(2)
Hawaii	36,426	62,065	36,907	64,557	1993	34,582
Total, United States	9,193,967	3,128,471	9,339,032	3,467,090	---	---

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River drainage area States are not available.

2) Data not available.

NOTE:—Data are preliminary. Totals may not add due to roundings. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States. Therefore, they will not agree with "U.S. Commercial Landings" beginning on page 8. Data do not include aquaculture products, except oysters and clams.

U.S. Commercial Landings

COMMERCIAL FISHERY LANDINGS AND VALUE AT MAJOR U.S. PORTS, 1998-1999

Port	Quantity		Port	Value	
	1998	1999		1998	1999
	Million pounds			Million dollars	
Dutch Harbor-Unalaska, AK	597.1	678.3	Dutch Harbor-Unalaska, AK	110.0	140.8
Empire-Venice, LA	328.0	435.0	New Bedford, MA	93.5	129.9
Cameron, LA	257.4	406.0	Kodiak, AK	78.7	100.8
Reedville, VA	509.0	378.6	Brownsville-Port Isabel, TX	64.2	65.2
Intercoastal City, LA	206.7	369.0	Empire-Venice, LA	38.3	64.0
Kodiak, AK	357.6	331.6	Honolulu, HI	49.0	52.1
Pascagoula-Moss Point, MS	193.2	250.5	Key West, FL	44.8	51.9
Los Angeles, CA	150.9	194.7	Point Judith, RI	41.8	51.2
Ketchikan, AK	99.9	159.4	Dulac-Chauvin, LA	38.7	49.0
Port Hueneme-Oxnard-Ventura, CA	16.2	155.9	Naknek-King Salmon, AK	29.5	46.5
Morgan City-Berwick, LA	158.6	137.0	Portland, ME	35.2	42.4
Astoria, OR	87.7	118.2	Seward, AK	26.3	41.5
Petersburg, AK	73.0	99.2	Bayou La Batre, AL	36.4	40.0
Newport, OR	117.6	92.4	Ketchikan, AK	22.8	39.9
New Bedford, MA	87.4	86.1	Hampton Roads Area, VA	28.0	39.1
Point Judith, RI	75.1	72.5	Los Angeles, CA	26.3	36.1
Naknek-King Salmon, AK	34.1	62.3	Cameron, LA	29.8	36.0
Cordova, AK	45.4	62.2	Palacios, TX	32.6	35.9
Beaufort-Morehead City, NC	80.4	57.0	Homer, AK	18.9	34.6
Cape May-Wildwood, NJ	94.0	56.4	Petersburg, AK	26.1	34.1
Portland, ME	46.5	55.6	Galveston, TX	27.9	33.1
Gloucester, MA	107.1	49.7	Sitka, AK	24.3	32.6
Dulac-Chauvin, LA	30.5	42.0	Reedville, VA	42.6	32.4
Seward, AK	45.0	41.8	Port Hueneme-Oxnard-Ventura, CA	8.0	32.3
Atlantic City, NJ	37.3	41.2	Cordova, AK	20.7	30.8
Moss Landing, CA	27.6	40.7	Golden Meadow-Leeville, LA	27.1	29.0
Sitka, AK	19.3	36.2	Gulfport-Biloxi, MS	30.1	27.9
Rockland, ME	39.0	35.8	Gloucester, MA	28.4	25.9
Wanchese-Stumpy Point, NC	36.7	33.6	Delcambre, LA	22.5	25.0
Point Pleasant, NJ	32.9	33.4	Astoria, OR	18.0	23.1
Honolulu, HI	28.3	30.6	Kenai, AK	10.3	22.9
Coos Bay-Charleston, OR	14.6	26.0	Wanchese-Stumpy Point, NC	24.7	22.7
Westport, WA	34.5	25.6	Cape May-Wildwood, NJ	29.2	22.4
Wrangell, AK	17.9	23.2	Port Arthur, TX	32.6	22.4
Brownsville-Port Isabel, TX	24.7	22.2	Intercoastal City, LA	12.7	21.0
Hampton Roads Area, VA	21.9	21.9	Atlantic City, NJ	17.8	20.0
Bellingham, WA	24.0	21.2	Newport, OR	14.1	19.6
Provincetown-Chatham, MA	17.8	20.0	Tampa Bay-St. Petersburg, FL	28.7	19.2
Key West, FL	18.9	19.8	Fort Myers, FL	20.5	18.9
Kenai, AK	18.7	19.6	Point Pleasant, NJ	16.7	17.2
Golden Meadow-Leeville, LA	17.6	19.0	Delacroix-Ysloskey, LA	15.6	17.0
Galveston, TX	16.3	18.0	Bellingham, WA	16.7	16.9
Bayou La Batre, AL	23.6	17.8	Beaufort-Morehead City, NC	20.1	16.7
Homer, AK	19.0	17.4	Freeport, TX	16.1	16.6
Delacroix-Ysloskey, LA	14.0	16.0	Morgan City-Berwick, LA	17.8	16.0
Engelhard-Swanquarter, NC	17.7	15.7	Pascagoula-Moss Point, MS	13.8	16.0
Crescent City, CA	22.9	14.3	Aransas Pass-Rockport, TX	15.5	15.0
Grand Isle, LA	14.4	14.0	Juneau, AK	8.4	14.4
Gulfport-Biloxi, MS	14.1	13.4	Provincetown-Chatham, MA	10.2	12.9
Delcambre, LA	12.4	13.0	Charleston-Mt. Pleasant, SC	13.0	12.0
Palacios, TX	14.6	12.8	Grand Isle, LA	17.1	12.0

Notes:—To avoid disclosure of private enterprise certain leading ports have not been included to preserve confidentiality. Seattle landings include fish caught by at-sea processing vessels. The record landings for quantity was 848.2 million pounds in Los Angeles, CA in 1960 and for value was \$224.1 million in Dutch Harbor-Unalaska, AK in 1994.

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores				Grand Total	
	0 to 3 miles		3 - 200 miles		Thousand Pounds		Thousand Dollars		Thousand Pounds	Thousand Dollars
Fish	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Alewives	1,453	327	48	4	-	-	-	-	1,501	331
Anchovies	5,745	687	5,990	672	-	-	-	-	11,735	1,359
Atka mackerel	220	11	113,175	5,659	-	-	-	-	113,395	5,670
Bluefish	4,556	1,693	2,849	980	-	-	-	-	7,405	2,673
Blue runner	269	167	128	63	-	-	-	-	397	230
Bonito	164	116	208	100	2	(3)	-	(3)	374	216
Butterfish	1,007	605	5,083	2,462	-	-	-	-	6,090	3,067
Catfish & bullheads	20,356	8,796	3	3	-	-	-	-	20,359	8,799
Chubs	3,362	1,468	(3)	(3)	-	-	-	-	3,362	1,468
Cod:										
Atlantic	903	967	20,541	22,975	-	-	-	-	21,444	23,942
Pacific	65,203	11,521	458,784	71,706	-	-	-	-	523,987	83,227
Crevalle	261	173	450	236	-	-	-	-	711	409
Croaker:										
Atlantic	17,086	5,143	9,767	2,524	-	-	-	-	26,853	7,667
Pacific (white)	34	28	129	104	-	-	-	-	163	132
Cusk	22	18	486	366	-	-	-	-	508	384
Dolphinfish	8	12	1,229	1,888	24	30	-	-	1,261	1,930
Eel, American	1,079	1,643	1	1	-	-	-	-	1,080	1,644
Flounders:										
Arrowtooth	1,297	105	25,244	1,354	-	-	-	-	26,541	1,459
Winter (blackback)	2,199	2,651	8,061	10,336	-	-	-	-	10,260	12,987
Plaice, American	690	828	7,708	7,708	-	-	-	-	6,909	8,536
Summer (fluke)	2,797	5,683	7,866	13,797	-	-	-	-	10,663	19,480
Sole:										
Dover	3,970	1,351	19,306	5,704	-	-	-	-	23,276	7,055
Flathead	49	6	31,517	459	-	-	-	-	31,566	465
Witch (gray)	350	463	4,332	6,147	-	-	-	-	4,682	6,610
Petrale	719	693	2,543	2,413	-	-	-	-	3,262	3,106
Rock	53	3	37,847	769	-	-	-	-	37,900	772
Yellowfin	(3)	(3)	125,287	2,507	-	-	-	-	125,287	2,507

(Continued)

See footnotes at end of table

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)**

U.S. Commercial Landings

Species	Distance from U.S. shores			High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles	3 - 200 miles		Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Fish - Continued	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Dollars
Flounders - Continued:							
Yellowtail	602	659	9,166	10,717	-	9,768	11,376
Atlantic/Gulf, other	3,934	6,879	256	109	-	4,190	6,988
Pacific, other	2,227	1,845	34,689	6,760	-	36,916	8,605
Total flounders	18,887	21,166	312,333	68,780	-	331,220	89,946
Goosefish (anglerfish)	4,946	3,792	50,269	42,536	-	55,215	46,328
Groupers	543	1,100	12,144	25,065	-	12,687	26,165
Haddock	213	274	6,724	8,846	-	6,937	9,120
Hakes:							
Pacific (whiting)	-	-	478,154	18,593	-	478,154	18,593
Red	-	49	3,197	870	-	3,431	919
Silver (Atl. Whiting)	1,730	623	29,247	13,660	-	30,977	14,283
White	175	113	5,630	4,189	-	5,805	4,302
Haitbut	3,699	5,808	76,827	119,147	4	80,530	124,962
Herring:							
Sea:							
Atlantic	47,016	3,248	128,462	7,834	-	175,478	11,082
Pacific	91,036	14,984	23	5	-	91,059	14,989
Thread	3,461	386	(3)	(3)	-	3,461	386
Jack mackerel	1,768	144	693	55	-	2,461	199
Lingcod	404	281	988	726	-	1,392	1,007
Mackerels:							
Atlantic	4,145	741	22,415	2,832	-	26,560	3,573
Chub	14,443	810	4,774	272	-	19,217	1,082
King and cero	645	530	4,783	6,284	-	5,313	6,929
Spanish	1,191	831	1,812	1,093	-	3,003	1,924
Menhaden:							
Atlantic	422,697	31,683	35,859	2,881	-	458,556	34,564
Gulf	1,208,117	61,923	322,408	16,595	-	1,530,525	78,518
Total menhaden	1,630,814	93,606	358,267	19,476	-	1,989,081	113,082
Mullets	15,156	8,351	180	135	-	15,336	8,486
Ocean perch:							
Atlantic	15	8	763	412	-	778	420
Pacific	2	(3)	45,400	3,640	-	45,402	3,640

See footnotes at end of table

(Continued)

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles		3 - 200 miles					
	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars				
Fish - Continued								
Pollock:								
Atlantic	193	146	9,936	8,294	-	-	10,129	8,440
Walleye (Alaska)	72,600	5,082	2,253,289	157,730	-	-	2,325,889	162,812
Rockfishes:								
Bocaccio	20	11	414	188	-	-	434	199
Canary	25	13	1,678	800	-	-	1,703	813
Chilepepper	361	168	1,664	773	-	-	2,025	941
Widow	53	23	9,300	3,557	-	-	9,353	3,580
Yellowtail	36	18	7,609	2,920	-	-	7,645	2,938
Other	2,607	1,784	39,456	20,183	-	-	42,063	21,967
Total rockfishes	3,102	2,017	60,121	28,421	-	-	63,223	30,438
Sablefish	5,946	11,914	42,309	85,234	-	-	48,255	97,148
Salmon:								
Chinook or king	11,195	18,771	4,081	6,752	-	-	15,276	25,523
Chum or keta	143,947	25,739	2	(3)	-	-	143,949	25,739
Pink	382,089	52,431	3	1	-	-	382,092	52,432
Red or sockeye	244,349	233,308	(3)	(3)	-	-	244,349	233,308
Silver or coho	28,065	21,483	1,166	1,300	-	-	29,231	22,783
Total salmon	781,580	351,732	4,086	8,053	-	-	785,666	359,785
Sardines:								
Pacific	93,020	3,710	39,133	1,553	-	-	132,153	5,263
Spanish	1,181	191	-	-	-	-	1,181	191
Scup or porgy	1,553	2,133	2,326	2,650	-	-	3,879	4,783
Sea bass:								
Black (Atlantic)	946	1,634	2,840	4,443	-	-	3,786	6,077
White (Pacific)	25	41	222	369	-	-	247	410
Sea trout or weakfish:								
Gray	4,916	3,055	2,019	1,132	-	-	6,935	4,187
Spotted	870	1,163	1	1	-	-	871	1,164
Sand (white)	112	76	98	32	-	-	210	108
Shad:								
American	2,547	1,111	87	37	-	-	2,634	1,148
Hickory	132	29	5	1	-	-	137	30

(Continued)

See footnotes at end of table

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores			High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles	3 - 200 miles		Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Fish - Continued	Thousand Pounds	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Sharks:							
Dogfish	7,853	1,243	28,859	4,708	-	36,712	5,951
Other	903	560	10,598	5,272	794	14,711	6,626
Sheepshead (Atlantic)	2,598	985	11	4	-	2,609	989
Skates	9,929	1,154	21,453	2,536	-	31,382	3,690
Smelts	1,695	913	7	1	-	1,702	914
Snappers:							
Red	117	521	4,605	9,971	-	4,722	10,492
Vermillion	(3)	(3)	1,613	3,474	-	1,613	3,474
Unclassified	366	746	3,625	6,966	-	3,991	7,712
Spearfish	12	10	241	203	185	473	398
Spot	5,621	2,151	108	40	-	5,729	2,191
Striped bass	6,561	10,876	63	111	-	6,624	10,987
Swordfish	245	477	8,804	19,780	13,179	16,021	33,436
Tenpounder (ladyfish)	4,329	1,996	7	2	-	4,336	1,998
Tilefish	66	148	2,004	3,892	-	2,070	4,040
Trout, Rainbow	180	101	-	-	-	180	101
Tuna:							
Albacore	450	467	13,996	11,977	14,345	31,068	26,789
Bigeye	94	301	4,831	15,152	12,192	15,229	27,645
Bluefin	20	56	2,600	15,296	221	2,689	15,573
Little tunny	244	48	889	579	-	1,133	627
Skipjack	901	1,091	1,445	1,388	99,301	333,644	101,760
Yellowfin	1,021	2,229	5,875	12,335	33,396	96,172	47,960
Unclassified	16	28	251	281	89	439	398
Total tuna	2,746	4,220	29,887	57,008	159,544	480,374	220,772
Whitefish, common	11,802	9,982	-	-	-	11,802	9,982
Wolfish, Atlantic	21	9	547	234	-	568	243
Yellow perch	1,184	2,584	-	-	-	1,184	2,584
Other marine finfishes	22,418	15,511	23,246	14,213	3,167	47,703	32,891
Other freshwater finfishes	20,129	6,887	1,186	296	-	21,315	7,183
Total finfish	3,057,699	635,443	4,716,458	880,854	176,906	8,234,369	1,693,203

(Continued)

See footnotes at end of table

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores			High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles	3 - 200 miles					
<u>Shellfish</u>	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Dollars
Clams:							
Quahog (hard)	8,396	44,798	-	-	-	8,396	44,798
Geoduck (Pacific)	1,498	15,437	(3)	(3)	-	1,498	15,437
Manila (Pacific)	693	4,529	-	-	-	693	4,529
Ocean quahog	6,844	3,709	31,861	14,826	-	38,705	18,535
Softshell	2,655	12,397	-	-	-	2,655	12,397
Surf (Atlantic)	29,968	16,953	28,861	13,478	-	58,829	30,431
Other	1,454	8,897	(3)	(3)	-	1,454	8,897
Total clams	51,508	106,720	60,722	28,304	-	112,230	135,024
Conch (snails)	1,887	2,331	1,442	1,659	-	3,329	3,990
Crabs:							
Blue: Hard	196,521	150,482	-	-	-	196,521	150,482
Soft or peeler	5,973	20,799	-	-	-	5,973	20,799
Dungeness	30,865	62,294	4,584	8,817	-	35,449	71,111
Jonah	1,590	793	1,824	857	-	3,414	1,650
King	1,368	5,147	15,552	82,928	-	16,920	88,075
Snow (tanner):							
Opilio	-	-	182,997	161,037	-	182,997	161,037
Bairdi	2,165	4,746	(3)	(3)	-	2,165	4,746
Other	7,541	6,273	7,327	17,062	-	14,868	23,335
Total crabs	246,023	250,534	212,284	270,701	-	458,307	521,235
Crawfish, freshwater	11,733	8,347	-	-	-	11,733	8,347
Horseshoe crab	3,546	852	1,740	512	-	5,286	1,364
Lobsters:							
American	77,224	279,638	10,246	43,319	-	87,470	322,957
Spiny	2,446	11,787	4,247	17,967	-	6,693	29,754
Mussels, blue (sea)	1,981	1,046	-	-	-	1,981	1,046
Oysters	26,983	72,658	-	-	-	26,983	72,658

See footnotes at end of table

(Continued)

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles		3 - 200 miles		Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Shellfish - Continued	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars				
Scallops:								
Bay	35	181	-	-	-	-	35	181
Calico, Atlantic	1,877	1,598	2,228	2,283	-	-	4,105	3,881
Sea	2,248	12,293	20,791	112,997	-	-	23,039	125,290
Shrimp:								
New England	1,196	1,160	2,616	2,419	-	-	3,812	3,579
South Atlantic	25,928	58,988	4,269	9,598	-	-	30,197	68,586
Gulf	127,753	185,464	108,723	278,714	-	-	236,476	464,178
Pacific	7,311	8,988	26,357	15,053	-	-	33,668	24,041
Other	10	59	10	59	-	-	20	118
Total shrimp	162,198	254,659	141,975	305,843	-	-	304,173	560,502
Squid:								
Atlantic:								
Illex	3,979	1,064	12,190	2,788	-	-	16,169	3,852
Loligo	8,879	7,238	32,456	24,938	-	-	41,335	32,176
Unclassified	181	104	625	86	-	-	806	190
Pacific:								
Loligo	189,880	33,201	9,994	1,747	-	-	199,874	34,948
Unclassified	14	5	-	-	-	-	14	5
Total, squid	202,933	41,612	55,265	29,559	-	-	258,198	71,171
Other shellfish	14,001	8,545	615	1,174	-	-	14,616	9,719
Total shellfish	806,623	1,052,801	511,555	814,318	-	-	1,318,178	1,867,119
Other								
Sea urchin	33,545	35,642	5	5	-	-	33,550	35,647
Seaweed, unclassified	174,162	525	-	-	-	-	174,162	525
Kelp (with herring eggs)	521	1,543	(3)	(3)	-	-	521	1,543
Worms	757	3,956	-	-	-	-	757	3,956
Total other	208,985	41,666	5	5	-	-	208,990	41,671
Grand total, 1999	4,073,307	1,729,910	5,228,018	1,695,177	460,212	176,906	9,761,537	3,601,993
Grand total, 1998	3,448,447	1,542,845	5,707,659	1,553,368	438,681	198,148	9,594,787	3,294,361

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance-from-shore landings for data collected by the Service and States. (2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States. (3) Less than 500 LB or \$500. (4) Data are confidential and included with other shellfish.

NOTE:—Data are preliminary. Totals may not agree due to roundings. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States. Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. Data do not include aquaculture products, except oysters or clams.

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores			High Seas or off Foreign Shores			Total	
	0 to 3 miles		3 to 200 miles					
Fish	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Alewives	659	327	22	4	-	-	681	331
Anchovies	2,606	687	2,717	672	-	-	5,323	1,359
Atka mackerel	100	11	51,336	5,659	-	-	51,436	5,670
Bluefish	2,067	1,693	1,292	980	-	-	3,359	2,673
Blue runner	122	167	58	63	-	-	180	230
Bonito	74	116	94	100	1	(3)	170	216
Butterfish	457	605	2,306	2,462	-	-	2,762	3,067
Calfish & bullheads	9,233	8,796	1	3	-	-	9,235	8,799
Chubs	1,525	1,468	(3)	(3)	-	-	1,525	1,468
Cod:								
Atlantic	410	967	9,317	22,975	-	-	9,727	23,942
Pacific	29,576	11,521	208,103	71,706	-	-	237,679	83,227
Crevalle	118	173	204	236	-	-	323	409
Croaker:								
Atlantic	7,750	5,143	4,430	2,524	-	-	12,180	7,667
Pacific (white)	15	28	59	104	-	-	74	132
Cusk	10	18	220	366	-	-	230	384
Dolphinfish	4	12	557	1,888	11	30	572	1,930
Eel, American	489	1,643	1	1	-	-	490	1,644
Flounders:								
Arrowtooth	588	105	11,451	1,354	-	-	12,039	1,459
Winter (blackback)	997	2,651	3,656	10,336	-	-	4,654	12,987
Plaice, American	313	828	2,821	7,708	-	-	3,134	8,536
Summer (flake)	1,269	5,683	3,568	13,797	-	-	4,837	19,480
Sole:								
Dover	1,801	1,351	8,757	5,704	-	-	10,558	7,055
Flathead	22	6	14,296	459	-	-	14,318	465
Witch (gray)	159	463	1,965	6,147	-	-	2,124	6,610
Petrale	326	693	1,153	2,413	-	-	1,480	3,106
Rock	24	3	17,167	769	-	-	17,191	772
Yellowfin	(3)	(3)	56,830	2,507	-	-	56,830	2,507

(Continued)

See footnotes at end of table

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores			High Seas or off Foreign Shores			Total	
	0 to 3 miles		3 to 200 miles	Metric Tons		Thousand Dollars	Metric Tons	Thousand Dollars
Fish - Continued	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Flounders - Continued:								
Yellowtail	273	659	4,158	10,717	-	-	4,431	11,376
Atlantic/Gulf, other	1,784	6,879	116	109	-	-	1,901	6,988
Pacific, other	1,010	1,845	15,735	6,760	-	-	16,745	8,605
Total Flounders	8,567	21,166	312,333	68,780	-	-	150,240	89,946
Goosefish (anglerfish)	2,243	3,792	22,802	42,536	-	-	25,045	46,328
Groupers	246	1,100	5,508	25,065	-	-	5,755	26,165
Haddock	97	274	3,050	8,846	-	-	3,147	9,120
Hakes:								
Pacific (whiting)	-	-	216,889	18,593	-	-	216,889	18,593
Red	106	49	1,450	870	-	-	1,556	919
Silver (Atl. Whiting)	785	623	13,266	13,660	-	-	14,051	14,283
White	79	113	2,554	4,189	-	-	2,633	4,302
Halibut	1,678	5,808	34,848	119,147	2	7	36,528	124,962
Herring:								
Sea:								
Atlantic	21,326	3,248	58,270	7,834	-	-	79,596	11,082
Pacific	41,294	14,984	10	5	-	-	41,304	14,989
Thread	1,570	386	(3)	(3)	-	-	1,570	386
Jack mackerel	802	144	314	55	-	-	1,116	199
Lingcod	183	281	448	726	-	-	631	1,007
Mackerels:								
Atlantic	1,880	741	10,167	2,832	-	-	12,048	3,573
Chub	6,551	810	2,165	272	-	-	8,717	1,082
King and cero	240	645	2,170	6,284	-	-	2,410	6,929
Spanish	540	831	822	1,093	-	-	1,362	1,924
Menhaden:								
Atlantic	191,734	31,683	16,266	2,881	-	-	208,000	34,564
Gulf	547,998	61,923	146,243	16,595	-	-	694,242	78,518
Total menhaden	739,732	93,606	162,509	19,476	-	-	902,241	113,082
Mullets	6,875	8,351	82	135	-	-	6,956	8,486
Ocean perch:								
Atlantic	7	8	346	412	-	-	353	420
Pacific	1	(3)	20,593	3,640	-	-	20,594	3,640

See footnotes at end of table

(Continued)

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Total	
	0 to 3 miles		3 to 200 miles					
	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Fish - Continued								
Pollock:								
Atlantic	88	146	4,507	8,294	-	-	4,594	8,440
Walleye (Alaska)	32,931	5,082	1,022,085	157,730	-	-	1,055,016	162,812
Rockfishes:								
Bocaccio	9	11	188	188	-	-	197	199
Canary	11	13	761	800	-	-	772	813
Chilepepper	164	168	755	773	-	-	919	941
Widow	24	23	4,218	3,557	-	-	4,242	3,580
Yellowtail	16	18	3,451	2,920	-	-	3,468	2,938
Other	1,183	1,784	17,897	20,183	-	-	19,080	21,967
Total rockfishes	1,407	2,017	27,271	28,421	-	-	28,678	30,438
Sablefish	2,697	11,914	19,191	85,234	-	-	21,888	97,148
Salmon:								
Chinook or king	5,078	18,771	1,851	6,752	-	-	6,929	25,523
Chum or keta	65,294	25,739	1	(3)	-	-	65,295	25,739
Pink	173,314	52,431	1	1	-	-	173,316	52,432
Red or sockeye	110,836	233,308	0	(3)	-	-	110,836	233,308
Silver or coho	12,730	21,483	529	1,300	-	-	13,259	22,783
Total salmon	354,522	351,732	1,853	8,053	-	-	369,635	359,785
Sardines:								
Pacific	42,194	3,710	17,751	1,553	-	-	59,944	5,263
Spanish	536	191	-	-	-	-	536	191
Scup or porgy	704	2,133	1,055	2,650	-	-	1,760	4,783
Sea bass:								
Black (Atlantic)	429	1,634	1,288	4,443	-	-	1,717	6,077
White (Pacific)	11	41	101	369	-	-	112	410
Sea trout or weakfish:								
Gray	2,230	3,055	916	1,132	-	-	3,146	4,187
Spotted	395	1,163	(3)	1	-	-	395	1,164
Sand (white)	51	76	44	32	-	-	95	108
Shad:								
American	1,155	1,111	39	37	-	-	1,195	1,148
Hickory	60	29	2	1	-	-	62	30

(Continued)

See footnotes at end of table

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Total	
	0 to 3 miles		3 to 200 miles		Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Fish - Continued	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Sharks:								
Dogfish	3,562	1,243	13,090	4,708	-	-	16,652	5,951
Other	410	560	4,807	5,272	1,456	794	6,673	6,626
Sheepshead (Atlantic)	1,178	985	5	4	-	-	1,183	989
Skates	4,504	1,154	9,731	2,536	-	-	14,235	3,690
Smelts	769	913	3	1	-	-	772	914
Snappers:								
Red	53	521	2,089	9,971	-	-	2,142	10,492
Vermillion	(3)	(3)	732	3,474	-	-	732	3,474
Unclassified	166	746	1,644	6,966	-	-	1,810	7,712
Spearfish	5	10	109	203	100	185	215	398
Spot	2,550	2,151	49	40	-	-	2,599	2,191
Striped bass	2,976	10,876	29	111	-	-	3,005	10,987
Swordfish	111	477	3,993	19,780	3,162	13,179	7,267	33,436
Tenpounder (ladyfish)	1,964	1,996	3	2	-	-	1,967	1,998
Thiefish	30	148	909	3,892	-	-	939	4,040
Trout, Rainbow	82	101	-	-	-	-	82	101
Tuna:								
Albacore	204	467	6,349	11,977	7,540	14,345	14,092	26,789
Bigeye	43	301	2,191	15,152	4,674	12,192	6,908	27,645
Bluefin	9	56	1,179	15,296	31	221	1,220	15,573
Little tunny	111	48	403	579	-	-	514	627
Skipjack	409	1,091	655	1,388	150,276	99,301	151,340	101,780
Yellowfin	463	2,229	2,665	12,335	40,495	33,396	43,623	47,960
Unclassified	7	28	114	281	78	89	199	398
Total tuna	1,246	4,220	13,557	57,008	203,094	159,544	217,896	220,772
Whitefish, common	5,353	9,982	-	-	-	-	5,353	9,982
Wolfish, Atlantic	10	9	248	234	-	-	258	243
Yellow perch	537	2,584	-	-	-	-	537	2,584
Other marine finfishes	10,169	15,511	10,544	14,213	925	3,167	21,638	32,891
Other freshwater finfishes	9,130	6,887	538	296	-	-	9,668	7,183
Total finfish	1,386,963	635,443	2,139,371	880,854	208,751	176,906	3,735,085	1,693,203

(Continued)

See footnotes at end of table

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores			High Seas or off Foreign Shores			Total	
	0 to 3 miles		3 to 200 miles					
Shellfish	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Clams:								
Quahog (hard)	3,808	44,798	-	-	-	-	3,808	44,798
Geoduck (Pacific)	679	15,437	(3)	(3)	-	-	679	15,437
Manila (Pacific)	314	4,529	-	-	-	-	314	4,529
Ocean quahog	3,104	3,709	14,452	14,826	-	-	17,556	18,535
Softshell	1,204	12,397	-	-	-	-	1,204	12,397
Surf (Atlantic)	13,593	16,953	13,091	13,478	-	-	26,685	30,431
Other	660	8,897	(3)	(3)	-	-	660	8,897
Total clams	23,364	106,720	27,543	28,304	-	-	50,907	135,024
Conch (snails)	856	2,331	654	1,659	-	-	1,510	3,990
Crabs:								
Blue: Hard	89,141	150,482	-	-	-	-	89,141	150,482
Soft or peeler	2,709	20,799	-	-	-	-	2,709	20,799
Dungeness	14,000	62,294	2,079	8,817	-	-	16,080	71,111
Jonah	721	793	827	857	-	-	1,549	1,650
King	621	5,147	7,054	82,928	-	-	7,675	88,075
Snow (tanner):								
Opilio	-	-	83,007	161,037	-	-	83,007	161,037
Bairdi	982	4,746	(3)	(3)	-	-	982	4,746
Other	3,421	6,273	3,324	17,062	-	-	6,744	23,335
Total crabs	111,595	250,534	96,291	270,701	-	-	207,887	521,235
Crawfish, freshwater	5,322	8,347	-	-	-	-	5,322	8,347
Horseshoe crab	1,608	852	789	512	-	-	2,398	1,364
Lobsters:								
American	35,029	279,638	4,648	43,319	-	-	39,676	322,957
Spiny	1,109	11,787	1,926	17,967	-	-	3,036	29,754
Mussels, blue (sea)	899	1,046	-	-	-	-	899	1,046
Oysters	12,239	72,658	-	-	-	-	12,239	72,658

(Continued)

See footnotes at end of table

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Total	
	0 to 3 miles		3 to 200 miles		Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Shellfish - Continued	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Scallops:								
Bay:	16	181	-	-	-	-	16	181
Calico, Atlantic	851	1,598	1,011	2,283	-	-	1,862	3,881
Sea	1,020	12,293	9,431	112,997	-	-	10,450	125,290
Shrimp:								
New England	543	1,160	1,187	2,419	-	-	1,729	3,579
South Atlantic	11,761	58,988	1,936	9,598	-	-	13,697	68,586
Gulf	57,948	185,464	49,316	278,714	-	-	107,265	464,178
Pacific	3,316	8,988	11,955	15,053	-	-	15,272	24,041
Other	5	59	5	59	-	-	9	118
Total shrimp	73,573	254,659	64,399	305,843	-	-	137,972	560,502
Squid:								
Atlantic:								
Illex	1,805	1,064	5,529	2,788	-	-	7,334	3,852
Loligo	4,027	7,238	14,722	24,938	-	-	18,749	32,176
Unclassified	82	104	283	86	-	-	366	190
Pacific:								
Loligo	86,129	33,201	4,533	1,747	-	-	90,662	34,948
Unclassified	6	5	-	-	-	-	6	5
Total, squid	92,050	41,612	25,068	29,559	-	-	117,118	71,171
Other shellfish	6,351	8,545	279	1,174	-	-	6,630	9,719
Total shellfish	365,882	1,052,801	232,040	814,318	-	-	597,922	1,867,119
Other								
Sea urchin	15,216	35,642	2	5	-	-	15,218	35,647
Seaweed, unclassified	78,999	525	-	-	-	-	78,999	525
Kelp (with herring eggs)	236	1,543	(3)	(3)	-	-	236	1,543
Worms	343	3,956	-	-	-	-	343	3,956
Total other	94,795	41,666	2	5	-	-	94,797	41,671
Grand total, 1999	1,847,640	1,729,910	2,371,413	1,695,177	208,751	176,906	4,427,804	3,601,993
Grand total, 1998	1,564,205	1,542,845	2,588,977	1,553,368	198,984	198,148	4,352,167	3,294,361

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance-from-shore landings for data collected by the Service and States. (2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States. (3) Less than .5 MT or \$500. (4) Data are confidential and included with other shellfish.

NOTE:—Data are preliminary. Totals may not agree due to roundings. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States. Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. Data do not include aquaculture products, except oysters or clams.

U.S. Commercial Landings

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1999 (1)

Group / Species	Puerto Rico		Guam	
Fish	<u>Pounds</u>	<u>Dollars</u>	<u>Pounds</u>	<u>Dollars</u>
Ballyhoo	60,400	70,668	-	-
Barracuda	29,583	46,445	2,847	5,917
Billfish:				
Marlin	-	-	30,711	36,437
Sailfish	-	-	974	1,295
Spearfish	-	-	28	34
Dolphin (Mahi mahi)	125,784	238,990	89,283	185,916
Emperors	-	-	1,539	4,544
Goatfish	37,213	63,262	-	-
Groupers:				
Red hind	66,648	139,294	-	-
Nassau	6,288	11,444	-	-
Other	48,448	101,256	2,893	7,350
Grunts				
Margate	953	886	-	-
Other	159,610	244,203	-	-
Hogfish	39,458	84,440	-	-
Jacks:				
Amberjack	-	-	736	1,934
Bigeye Scad	-	-	11,579	29,393
Rainbow Runner	-	-	3,466	7,401
Rudderfish	-	-	-	-
Other	66,488	101,727	2,626	6,559
Mackerel, king and cero	181,503	357,561	-	-
Milkfish	-	-	-	-
Mojarra	17,860	27,504	-	-
Mullet	68,055	83,027	-	-
Parrotfish	92,800	139,200	3,142	8,961
Rabbitfish	-	-	5,494	17,202
Scup or porgy	42,148	70,387	-	-
Sharks, other	53,540	86,199	105	315
Snappers:				
Ehu	-	-	835	3,322
Gindai (Flower Snapper)	-	-	998	3,994
Kalikali	-	-	1,489	5,179
Lane	311,780	648,502	-	-
Lehi	-	-	1,436	5,684
Mutton	116,868	258,278	-	-
Onaga	-	-	14,841	60,524
Opakapaka	-	-	1,180	4,600
Silk	187,813	539,023	-	-
Uku (Gray Snapper)	-	-	534	1,475
Yellowtail	317,595	759,052	-	-
Other	87,460	188,914	268	635
Total snappers	1,021,516	2,393,769	21,581	85,413
Snook	47,568	82,768	-	-
Spanish sardine	21,753	29,149	-	-
Squirrelfish	17,665	26,144	97	291
Surgeonfishes:				
Unicornfish	-	-	244	732
Other	-	-	60	179
Tarpon	1,638	442	-	-
Tilapia	-	-	-	-
Triggerfish	57,495	97,167	-	-
Trunkfish (boxfish)	91,000	172,900	-	-

(Continued)

U.S. Commercial Landings

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1999 (1) - Continued

Group / Species	Puerto Rico		Guam	
<u>Fish</u>	<u>Pounds</u>	<u>Dollars</u>	<u>Pounds</u>	<u>Dollars</u>
Tuna:				
Dogtooth	-	-	2,618	3,746
Kawakawa	-	-	264	353
Skipjack	-	-	41,590	54,959
Yellowfin	-	-	33,475	66,665
Unclassified	192,610	273,506	17	45
Total tuna	192,610	273,506	77,964	125,768
Wahoo	-	-	41,752	93,018
Wrasse (Hogfish)	-	-	3,684	9,605
Other marine finfishes	204,311	176,610	184,144	549,556
Other freshwater fish	-	-	-	-
Total fish	2,752,335	5,118,948	484,949	1,177,820
<u>Shellfish, et al</u>				
Crabs, other	1,710	21,375	109	1,004
Lobster, spiny	355,285	1,936,303	3,306	12,643
Conch (snail) meats	197,690	436,895	-	-
Oysters	435	653	-	-
Octopus	37,993	99,922	4,733	13,470
Shrimp	-	-	353	2,473
Shellfish, other	13,183	35,726	58	202
Total shellfish, et al.	606,296	2,530,873	8,559	29,792
Grand total	3,358,631	7,649,821	493,508	1,207,612

Group / Species	American Samoa		Northern Marianas Islands	
<u>Fish</u>	<u>Pounds</u>	<u>Dollars</u>	<u>Pounds</u>	<u>Dollars</u>
Barracudas	947	1,722	46	86
Billfishes:				
Blue marlin	28,853	32,671	3,541	5,939
Sailfish	5,496	7,746	50	100
Dolphin (mahimahi)	29,091	46,894	12,882	28,880
Emperors	1,269	2,502	8,396	22,520
Goatfish	-	-	1,272	3,561
Groupers:				
Lunartail	516	1,060	-	-
Other	748	1,554	3,901	11,629
Jacks:				
Amberjack	-	-	343	1,191
Bigeye Scad	668	1,180	10,210	29,565
Black jack	1,005	2,069	-	-
Rainbow runner	107	195	1,305	2,898
Rudderfish	879	1,758	178	616
Other	283	630	2,019	6,761
Moonfish (Opah)	1,779	3,558	-	-
Mullet	429	1,704	31	78
Oilfish	33	50	-	-
Parrotfishes	16,375	31,635	4,079	13,803
Rabbitfish	9	18	7,100	22,736
Snappers:				
Blue lined snapper	836	1,681	-	-
Ehu	4,063	12,918	821	2,872
Gindai (flower snapper)	116	272	3,686	12,824
Gray jobfish	815	1,630	-	-
Humpback	918	1,998	-	-
Kalikali	-	-	6	22

(Continued)

U.S. Commercial Landings

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1999 (1) - Continued

Group / Species	American Samoa		Northern Marianas Islands	
<u>Fish</u>	Pounds	Dollars	Pounds	Dollars
Lehi (silverjaw)	666	1,819	9,986	42,552
Onaga	1,788	5,683	17,351	75,171
Opakapaka	-	-	1,772	5,995
Stone's snapper	427	855	-	-
Yellow opakapaka	702	1,865	-	-
Snappers, other	1,044	2,747	863	1,867
Total snappers	11,375	31,468	34,485	141,303
Squirrelfish	2,721	5,491	916	2,941
Sunfish (Mola mola)	-	-	-	-
Surgeonfishes:				
Lined surgeon	-	-	-	-
Striped bristletooth	-	-	-	-
Unicornfishes	3,453	6,976	2,491	7,982
Yellowfin	-	-	-	-
Other	32,719	66,318	3,373	10,918
Swordfish	775	1,782	-	-
Tunas:				
Albacore	663,405	733,409	-	-
Bigeye	18,188	26,671	-	-
Dogtooth	200	313	11,316	26,212
Kawakawa	71	114	-	-
Skipjack	43,812	34,838	106,359	199,480
Yellowfin	128,388	177,955	24,199	50,634
Other	48	84	6,191	10,839
Total, tuna	854,112	973,384	148,065	287,165
Wahoo	37,972	59,260	7,994	19,715
Wrasses	194	389	139	397
Other finfishes	10,729	18,609	169,217	412,401
Total fish	1,042,537	1,300,623	422,033	1,033,185
<u>Shellfish, et al</u>				
Crabs	60	142	-	-
Lobster, spiny	2,205	7,412	3,118	17,200
Octopus	1,422	2,747	333	861
Shellfish, Other	62	120	4	14
Total shellfish, et al.	3,749	10,421	3,455	18,075
Grand total	1,046,286	1,311,044	425,488	1,051,260

(1) Data in this table are preliminary and represent the latest information available.

U.S. Commercial Landings

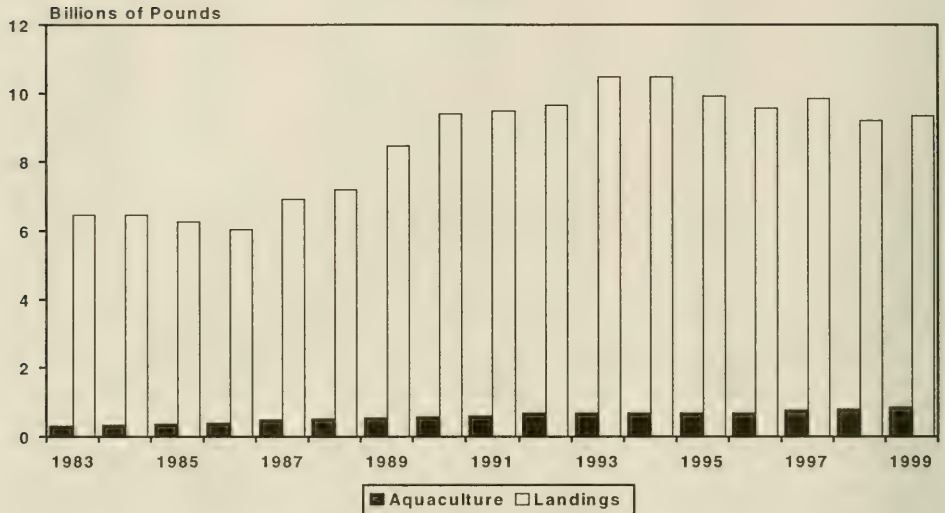
ESTIMATED U.S. AQUACULTURE PRODUCTION, 1993 - 1998

Species	1993			1994		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:						
Baitfish	20,574	9,332	63,033	21,709	9,847	68,714
Catfish	459,013	208,207	325,432	439,269	199,251	344,475
Salmon	25,279	11,466	68,358	24,714	11,210	61,915
Striped bass	5,950	2,699	14,270	7,625	3,459	18,835
Tilapia	12,500	5,670	15,625	12,980	5,888	16,225
Trout	54,642	24,785	54,309	52,075	23,621	52,569
Shellfish:						
Clams	6,125	2,778	12,096	4,872	2,210	14,023
Crawfish	56,784	25,757	28,518	49,080	22,263	26,994
Mussels	308	140	927	424	192	1,249
Oysters	24,399	11,067	76,139	28,016	12,708	69,928
Shrimp (SW)	6,614	3,000	26,455	4,409	2,000	17,637
Miscellaneous	6,613	3,000	97,232	20,462	9,282	58,545
Totals	678,801	307,902	782,394	665,635	301,930	751,109
Species	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:						
Baitfish	21,759	9,870	72,522	20,849	9,457	70,254
Catfish	446,886	202,706	351,222	472,123	214,154	364,951
Salmon	31,315	14,204	75,991	30,657	13,906	60,995
Striped bass	8,315	3,772	21,156	7,850	3,561	20,308
Tilapia	15,075	6,838	22,613	15,965	7,242	23,948
Trout	55,934	25,371	61,447	53,620	24,322	56,958
Shellfish:						
Clams	4,325	1,962	19,709	3,834	1,739	20,315
Crawfish	58,146	26,375	34,714	46,584	21,130	34,820
Mussels	410	186	1,221	986	447	5,085
Oysters	23,221	10,533	70,628	18,546	8,412	64,368
Shrimp (SW)	2,205	1,000	8,818	2,866	1,300	11,464
Miscellaneous(1)	23,359	10,596	75,243	19,813	8,987	152,169
Totals	690,950	313,413	815,284	693,693	314,657	885,635
Species	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:						
Baitfish	19,929	9,040	73,580	16,389	7,434	57,392
Catfish	524,949	238,115	372,497	564,355	255,990	419,094
Salmon	39,745	18,028	65,053	32,017	14,523	62,694
Striped bass	8,400	3,810	21,783	9,385	4,257	24,128
Tilapia	16,860	7,648	29,505	18,191	8,251	27,287
Trout	56,710	25,723	60,212	55,103	24,995	59,710
Shellfish:						
Clams	9,243	4,193	26,753	9,735	4,416	29,612
Crawfish	49,232	22,331	49,232	37,945	17,212	23,649
Mussels	597	271	3,365	527	239	2,801
Oysters	15,737	8,289	39,031	18,157	8,236	47,951
Shrimp (SW)	2,646	1,200	10,582	4,409	2,000	17,637
Miscellaneous(1)	22,625	9,930	177,994	23,495	10,657	166,688
Totals	766,673	347,761	929,587	789,708	358,209	938,643

NOTE:—Table may not add due to rounding. Clams, oysters and mussels are reported as meat weights (excludes shell) while other identified species such as shrimp and finfishes are reported as whole (live) weights. Some clam and oyster aquaculture production are reported with U.S. commercial landings. Weights and values represent the final sales of products to processors and dealers. (1) "Miscellaneous" includes ornamental/tropical fish, alligators, algae, aquatic plants, eels, scallops, crabs, and others. The high value and low production of "Miscellaneous" occurs because production value, but not weight, are reported for many species such as ornamental fishes. SW:—Saltwater.

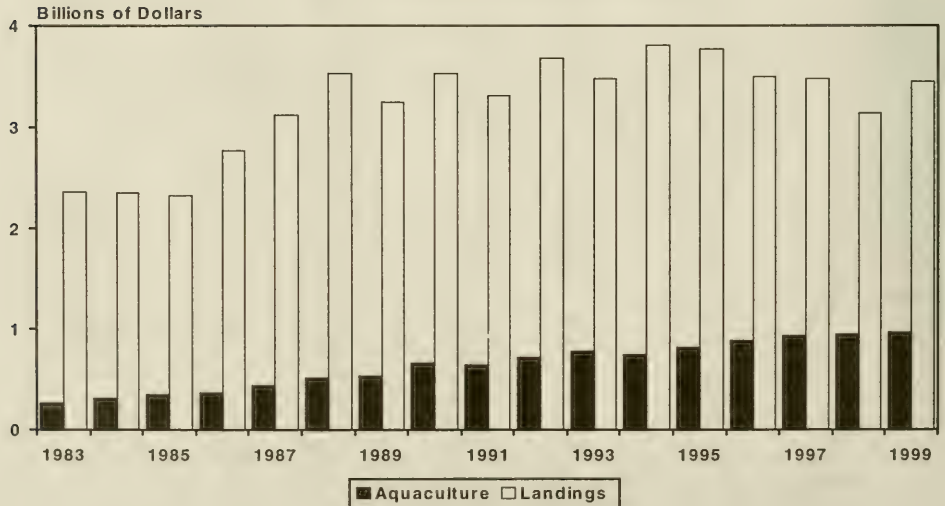
U.S. Commercial Landings

Volume of Domestic Commercial Landings and Aquaculture Production



Value of Domestic Commercial Landings and Aquaculture Production

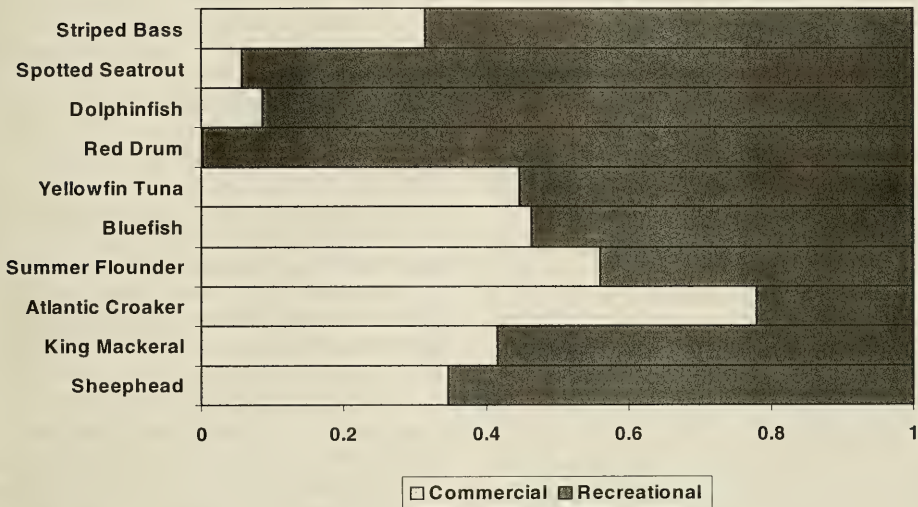
Note: The 1999 aquaculture production is estimated



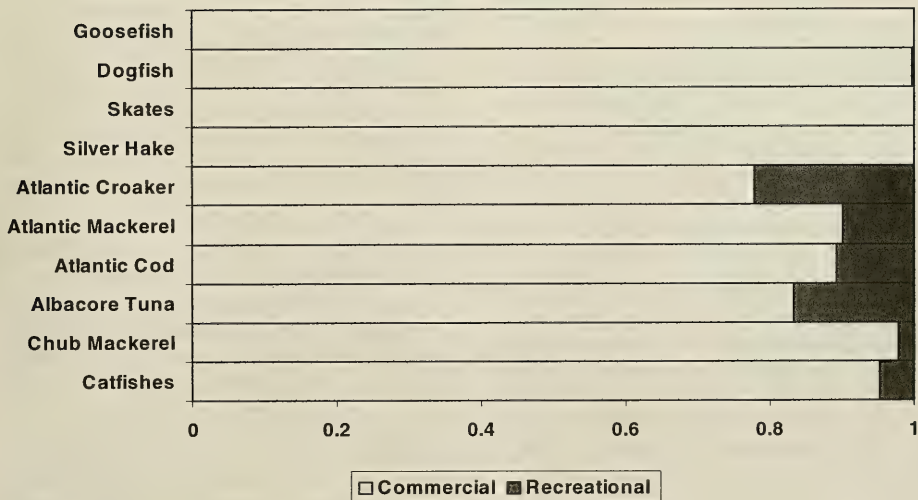
U.S. Commercial Landings

Comparisons between the top ten species in descending order of abundance by weight for U.S. commercial landings and recreational fish harvests. Does not include data for Alaska, Hawaii and Texas because no NMFS recreational surveys are conducted in those states. Menhaden, Pacific Hake, Atlantic Sea Herring and Pacific Sardine were excluded from commercial landings because they are industrial fisheries and recreational anglers do not target them.

**Top Ten Recreational Species - Harvest (A1 + B2)
Versus Commercial Harvest - 1999**



**Top Ten Commercial Species
Versus Recreational Harvest - 1999**



U.S. Marine Recreational Fisheries

DATA COLLECTION. Detailed information on marine recreational fishing is required to support a variety of fishery management and development purposes as outlined in the Sustainable Fisheries Act, Public Law 94-265. In 1979, NMFS began the comprehensive Marine Recreational Fishery Statistical Survey (MRFSS). Although the recreational harvest is only about 6 percent of the total U.S. harvest of finfish for MRFSS states (see MRFSS coverage page), it is important to managers because the fishing activities of millions of marine anglers are directed at relatively few species. Data collected through the MRFSS show that recreational fisheries have tremendous impacts on many recreationally important species. For some species recreational landings surpass commercial landings (see figure on preceding page).

METHODOLOGY. The MRFSS consists of an intercept survey of anglers in the field and a telephone survey of coastal county households. The intercept survey collects data on species composition, catch rates, and fish lengths and weights. The telephone survey collects data on the number of marine fishing trips. These data are combined to produce estimates of catch, effort, and participation. Catch is divided into three categories – type A, type B1 and type B2. Type A catch is fish that were caught, landed whole and were available for identification, enumeration, weighing and measuring by trained MRFSS field personnel. Type B1 catch includes fish that were caught, filleted, released dead, given away, or disposed of in some other way so that the interviewer could not verify the species, sizes, or numbers reported. Fish that were caught and reported as released alive are in the Type B2 category. Estimates are generated by subregion, state, wave (bimonthly sampling period), species, mode (private/rental boat, party/charter boat, and shore), primary area fished and catch type. In addition, economic and demographic data are also obtained.

The MRFSS was conducted in 1999 in all coastal states except Texas, Alaska, and Hawaii. Sampling coverage varies across the time series (see MRFSS coverage page). Detailed information and access to the data are available on the Fisheries Statistics and Economics web page (www.st.nmfs.gov/st1). Data from other NMFS and state surveys (e.g. SE head boats, Texas, California Passenger Fishing Vessels, Oregon/Washington ocean boats, Pacific salmon, Alaska) are not included in this report.

DATA TABLES. The estimated harvest (number and weight of fish) is presented for 128 commonly caught species. The estimated harvest includes types A and B1 catch and does not include B2 type fish. Numbers of fish harvested and released alive are also presented for many important species groups. Estimated harvest is presented by subregion and primary fishing area: inland (sounds, rivers, bays), state territorial seas (ocean to 3 miles from shore, except for Florida's Gulf coast, where state territorial seas extend to 10 miles from shore), and Exclusive Economic Zone (EEZ) (ocean from the outer edge of the state territorial seas to 200 miles from shore). The total number of estimated trips and participants are presented by state.

1999 MRFSS DATA. In 1999, over 7.8 million people made 56.9 million marine recreational fishing trips to the Atlantic, Gulf and Pacific coasts. The estimated marine recreational finfish catch was 328.8 million fish. Over 59 percent of the number caught were released alive. The estimated total weight of the harvest was 198.7 million pounds.

The Atlantic coast accounted for the majority of total marine angling participants (55 percent), trips (62 percent), and total number of fish caught (54 percent). The Gulf coast (excluding Texas, see MRFSS coverage page) accounted for 25 percent of participants, 28 percent of trips, and 40 percent of the catch. The Pacific coast accounted for 20 percent of participants, 10 percent of trips, and 6 percent of the catch. Nationally, most (57 percent) of the recreational catch (in numbers of fish) came from inland waters, 30 percent from state territorial seas, and 13 percent from the EEZ. This distribution is different for the Atlantic and Gulf coasts versus the Pacific coast. On the Atlantic and Gulf the majority of the trips were taken in inland waters, while on the Pacific coast more trips were in the state territorial seas.

ATLANTIC. In 1999, 4.2 million marine recreational fishing participants took 35.0 million trips and caught a total of 178.5 million fish. Twenty-three percent of the trips were made in east Florida, followed by 14 percent in New Jersey, 13 percent in North Carolina, 9 percent in Massachusetts, 8 percent in New York, 8 percent in Maryland, and 8 percent in Virginia. Together, Connecticut, Rhode Island, and South Carolina accounted for 12 percent of the trips (4 percent each), and Delaware, Maine, Georgia, and New Hampshire accounted for 6 percent of the trips.

U.S. Marine Recreational Fisheries

The most commonly caught non-bait species (numbers of fish) were Atlantic croaker, summer flounder, striped bass, bluefish, and black sea bass. By weight, the largest harvests were striped bass, dolphin, yellowfin tuna, summer flounder, and bluefish. The average weights for some of the top species were: 24.0 pounds for yellowfin tuna, 10.1 for striped bass, 7.1 for dolphin, 2.2 for bluefish, 2.0 for summer flounder, 1.1 for black sea bass, and 0.9 pounds for Atlantic croaker.

The total catch of striped bass increased steadily and dramatically from 1.8 million fish in 1990 to 17.5 million fish in 1997. In 1998 and 1999, total catch of striped bass declined slightly to 16.6 and 14.2 million fish, respectively. Over 90 percent of the striped bass catch was released alive in 1999. Summer flounder catches increased from 9.1 million fish in 1990 to 21.4 million fish in 1999. Atlantic croaker catch has shown no real trend since 1990, ranging from a low of 10.7 million fish in 1990 to a high of 23.2 million fish in 1994, with 1997 – 1999 catches consistently reaching 20.0 million fish. Bluefish, dolphin, and black sea bass catches remained relatively stable from 1992-1999.

The most commonly caught Atlantic coast species in federally managed waters were black sea bass, Atlantic croaker, summer flounder, dolphin, and Atlantic mackerel. The state territorial sea accounted for 29 percent of the total number of fish caught in the U.S. Atlantic, and the inland catch accounted for 58 percent.

GULF OF MEXICO. In 1999, 1.9 million marine recreational fishing participants took 15.9 million trips and caught a total of 129.9 million fish (excluding Texas). Seventy-one percent of the trips were made in west Florida, followed by 17 percent in Louisiana, 7 percent in Alabama and 5 percent in Mississippi.

The most commonly caught non-bait species (numbers of fish) were spotted seatrout (19 percent of total Gulf catch for all species), sand seatrout, red drum, white grunt, Atlantic croaker, red snapper, and gray snapper. By weight, the largest harvests were spotted seatrout, red drum, red snapper, sheephead, dolphin, king mackerel, and sand seatrout. The average weights for some of the top species were: 8.6 pounds for king mackerel, 5.3 for dolphin, 4.4 for red drum, 3.8 for red snapper, 2.7 for sheephead, 1.5 for gray snapper, 1.3 for spotted seatrout, and 0.7 pounds for sand seatrout.

Red snapper and sand seatrout catches reached 10 year highs in 1999 with 3.2 and 6.6 million fish respectively. Red drum, king mackerel, spotted seatrout, gray snapper, and sheephead catches have remained relatively stable since 1992. Gulf dolphin catch has shown no real trend since 1992, ranging from a low of 388 thousand fish in 1992 to a high of over 1.0 million fish in 1997.

The most commonly caught Gulf coast species in federally managed waters were red snapper, white grunt, dolphin, black sea bass, and spotted seatrout. The percent of the total Gulf catch from the state territorial sea was 29 percent, and the inland catch accounted for approximately 59 percent.

PACIFIC. In 1999, 1.6 million marine recreational fishing participants took 6.0 million trips and caught a total of 20.0 million fish. Seventy percent of the trips were made in California, followed by 21 percent in Washington, and 9 percent in Oregon.

The most commonly caught non-bait species (numbers of fish) were surf smelt, Pacific (chub) mackerel, barred sand bass, black rockfish, Pacific barracuda, kelp bass, blue rockfish, and California halibut. By weight, the largest harvests were Pacific barracuda, black rockfish, lingcod, California halibut, and yellowtail. The average weights for some of the top species were: 14.3 pounds for yellowtail (a 5.8 pound increase from the 1998 average), 10.6 for California halibut, 8.2 for lingcod, 4.6 for Pacific barracuda, and 1.8 for black rockfish.

Lingcod and black rockfish catches have remained relatively stable since 1993. California halibut catches reached a 3-year high of 645 thousand fish. Surf smelt catches dropped from a 7 year high of 4.8 million fish in 1998 to 1.2 million fish in 1999. Pacific barracuda catch has shown no real trend since 1993, ranging from a low of 584,000 fish in 1996 to a high of 1.8 million fish in 1994. Pacific (chub) mackerel hit a 7-year low in 1999 with 1.2 million fish caught.

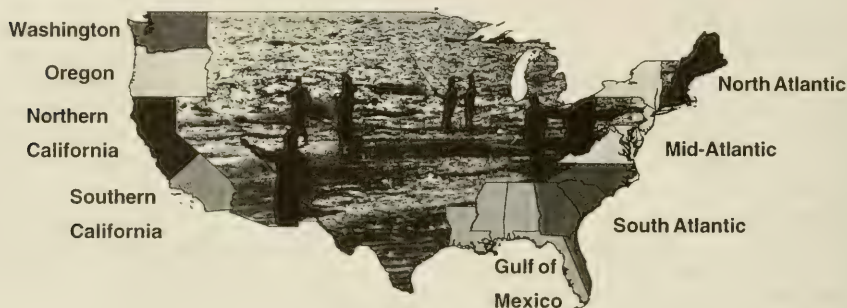
The most commonly caught Pacific coast species in federally managed waters were Pacific barracuda, yellowtail rockfish, Pacific (chub) mackerel, barred sand bass, greenspotted rockfish, California scorpionfish, and blue rockfish. The percent of the total Pacific catch from the state territorial sea was 49 percent, and the inland catch accounted for 35 percent.

U.S. Marine Recreational Fisheries

Coverage of MRFSS Survey

1979-1999

The Marine Recreational Fisheries Statistics Survey provides coverage of saltwater sport fishing (including estuarine and brackish water) from private/rental boats, charter and head boats, and the shore on the Atlantic Coast (Maine-East Florida), Gulf Coast (Louisiana-West Florida), and Pacific coast (Washington through California).



Care is advised when comparing catch estimates for the MRFSS time series because of differences in sampling coverage.

- In the South Atlantic and Gulf sub-regions (NC-LA) the MRFSS has not collected catch data from head boats since 1985, so estimates for these sub-regions now only include charter boats in the for-hire sector.
- Marine recreational fishing in Texas is monitored by the Texas Department of Parks and Wildlife and has not been surveyed by the MRFSS since 1985.
- On the Pacific coast, ocean boat trips during certain waves and salmon trips are not sampled because they are surveyed through the state natural resource agencies.
- Alaska conducts an annual mail survey and has never been surveyed by the MRFSS.
- The U.S. Caribbean, Hawaii and West Pacific territories have not been surveyed by the MRFSS since 1981.

Historically, only about 5 percent of the annual recreational catch on the Atlantic and Gulf coasts is taken during Wave 1 (January - February). Costs to sample these months are very high due to low fishing activity. Therefore, in Jan/Feb of 1981 the MRFSS was not conducted in any region. In 1982, Jan/Feb data collection resumed on the Pacific and Gulf Coasts and also on the Atlantic Coast of Florida. With a few exceptions (GA 1985-1989, SC 1988, NC 1988-1992), the MRFSS has not been conducted in Jan/Feb on the Atlantic Coast north of Florida since 1980.

Exceptions to MRFSS Coverage:

Nov/Dec (ME & NH) - 1987 to present

All Waves (CA-WA) - 1990 to 1993

Mar/Apr (ME & NH) - 1986 to present

All Waves (WA) - 1993 to 1994

Jan/Feb (No. CA-OR) - 1994

Jan/Feb (So. CA-OR) - 1995

Nov/Dec (OR) - 1994

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY SPECIES, 1998 AND 1999

Species	1998			1999			Average (1995-99)
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds
Anchovies**							
Northern Anchovy	(1)	(1)	3	54	24	104	12
Other Anchovies	-	-	-	(1)	(1)	(1)	(1)
Barracudas	1,162	527	150	1,192	541	139	1,531
Bluefish	12,774	5,796	4,430	8,610	3,906	3,856	12,590
California Scorpionfish	185	84	160	297	135	280	250
Cartilaginous Fishes							
Dogfish Sharks**	546	248	167	123	56	61	372
Skates/Rays**	101	46	70	195	88	81	163
Other Sharks**	2,665	1,209	286	2,790	1,266	209	4,539
Catfishes**							
Freshwater Catfishes	778	353	448	343	156	249	577
Saltwater Catfishes	885	402	525	654	297	460	963
Cods And Hakes							
Atlantic Cod	2,966	1,346	466	2,599	1,179	375	3,214
Pacific Cod	1	(1)	1	(1)	(1)	(1)	3
Pacific Hake	3	1	2	2	1	3	2
Pacific Tomcod	(1)	(1)	1	(1)	(1)	1	2
Pollock	283	128	185	196	89	218	441
Red Hake	144	65	115	59	27	118	181
Other Cods/Hakes	154	70	79	121	55	66	178
Croakers							
California Corbina	32	15	15	15	7	17	27
Queenfish	10	5	42	18	8	122	19
White Croaker	162	74	434	157	71	301	343
Other Croakers	221	100	119	499	226	93	268
Dolphins**	12,121	5,500	1,889	13,423	6,090	2,065	16,126
Drums							
Atlantic Croaker	8,211	3,726	10,010	7,628	3,461	10,090	6,575
Black Drum	2,794	1,267	715	2,012	913	723	2,238
Kingfishes	1,721	781	3,030	2,187	992	4,118	1,842
Red Drum	9,847	4,468	2,152	10,475	4,753	2,448	12,069
Sand Seatrout	1,815	823	2,808	2,833	1,285	4,998	2,032
Silver Perch	109	50	511	101	46	373	109
Spot	3,064	1,390	6,992	1,664	755	3,734	2,532
Spotted Seatrout	9,542	4,329	7,694	13,546	6,146	10,603	11,497
Weakfish**	4,044	1,835	2,390	3,143	1,426	1,652	3,132
Other Drum	98	45	218	212	96	778	152
Eels**	7	3	14	12	5	14	9
Flounders							
California Halibut**	939	426	106	1,297	588	124	1,338
Gulf Flounder	227	103	174	229	104	162	193
Rock Sole	13	6	14	7	3	5	15
Sanddabs	99	45	259	82	37	225	111
Southern Flounder	1,222	554	801	1,456	661	958	1,428
Starry Flounder	19	9	17	8	4	11	11
Summer Flounder	12,519	5,680	7,003	8,382	3,803	4,123	9,614
Winter Flounder	718	326	648	768	348	724	1,257
Other Flounders**	858	389	185	676	307	108	557

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY SPECIES, 1998 AND 1999

Species	1998			1999			Average (1995-99)
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds
Greenlings							
Kelp Greenling	117	53	98	115	52	89	134
Lingcod	1,283	582	160	1,398	634	172	1,110
Other Greenlings	7	3	12	3	2	8	19
Grunts							
Pigfish	337	153	933	357	162	933	443
White Grunt	1,253	569	1,809	1,381	627	1,749	1,592
Other Grunts	313	142	694	300	136	577	385
Herrings**	964	437	26,927	648	294	23,278	1,119
Jacks							
Blue Runner	1,227	557	1,869	750	340	860	889
Crevalle Jack	901	409	511	1,316	597	612	1,516
Florida Pompano	691	314	522	593	269	407	473
Greater Amberjack	1,287	584	91	2,696	1,223	140	1,821
Yellowtail	5,697	2,585	673	807	366	56	2,157
Other Jacks	415	189	534	806	366	1,360	404
Mullets**	2,673	1,213	3,240	2,240	1,016	5,710	2,281
Pacific Barracuda	2,057	933	450	1,988	902	423	1,849
Porgies							
Pinfishes	2,268	1,029	7,593	1,532	695	5,112	1,705
Red Porgy	76	35	81	87	39	81	134
Scup**	875	397	1,212	1,886	856	3,251	1,493
Sheepshead	4,403	1,998	1,742	4,789	2,173	1,905	5,412
Other Porgies**	111	51	149	102	46	170	213
Puffers	63	29	148	59	27	175	105
Rockfishes							
Black Rockfish	2,459	1,116	1,178	1,706	774	956	1,525
Blue Rockfish	859	390	841	712	323	673	638
Bocaccio	124	56	40	312	141	92	167
Brown Rockfish	92	42	81	149	67	121	110
Canary Rockfish	185	84	107	271	123	163	215
Chilipepper Rockfish	18	8	9	11	5	44	23
Copper Rockfish	241	109	157	223	101	136	214
Greenspotted Rockfish	33	15	40	98	44	133	85
Olive Rockfish	110	50	77	76	34	68	84
Quillback Rockfish	97	44	53	78	35	42	65
Rockfishes	78	35	102	123	56	154	85
Widow Rockfish	98	44	67	78	35	44	58
Yellowtail Rockfish	447	203	274	718	326	403	412
Other Rockfishes**	751	341	1,108	1,641	744	1,914	1,236
Sablefishes	9	4	1	(1)	(1)	(1)	5
Sculpins							
Cabezon	293	133	91	209	95	60	226
Sculpins	18	8	38	13	6	42	20
Sea Basses							
Barred Sand Bass	685	311	408	661	300	456	969
Black Sea Bass	1,674	760	1,697	2,245	1,019	2,000	4,203
Epinephelus Groupers**	994	451	154	1,405	637	213	1,300
Kelp Bass	511	232	326	338	154	236	719
Mycteroperca Groupers**	4,493	2,038	641	4,595	2,085	652	3,702
Spotted Sand Bass	22	10	17	38	17	30	65
Other Sea Basses	99	45	317	67	30	282	114

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY SPECIES, 1998 AND 1999

Species	1998			1999			Average (1995-99)
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds
Sea Chubs**							
Halfmoon	15	7	21	41	19	41	38
Opaleye	72	33	87	49	22	39	67
Other Sea Chubs	-	-	-	2	1	2	5
Searobins	106	48	202	78	35	122	132
Silversides							
Jacksnelt	149	68	366	102	46	272	198
Other Silversides	3	2	29	7	3	44	10
Smelts**							
Surf Smelt	357	162	4,825	28	13	1,217	220
Other Smelts	-	-	-	(1)	(1)	4	(1)
Snappers							
Gray Snapper	1,409	639	1,072	1,345	610	1,038	1,337
Lane Snapper	230	104	205	181	82	195	259
Red Snapper	4,373	1,984	1,336	4,651	2,110	1,266	3,856
Vermilion Snapper	353	160	294	541	245	540	435
Yellowtail Snapper	437	198	352	326	148	268	449
Other Snappers**	296	134	82	298	135	78	330
Sturgeons	566	257	32	617	280	19	614
Surfperches							
Barred Surfperch	534	242	646	158	72	210	314
Black Perch	62	28	94	27	12	38	57
Pile Perch	49	22	60	20	9	18	51
Redtail Surfperch	91	41	92	57	26	60	70
Shiner Perch	4	2	85	5	2	91	9
Silver Surfperch	12	5	43	29	13	86	21
Striped Seaperch	179	81	199	39	18	44	122
Walleye Surfperch	15	7	59	18	8	68	31
White Seaperch	5	2	22	9	4	21	12
Other Surfperches	55	25	135	53	24	65	56
Temperate Basses							
Striped Bass	13,459	6,107	1,483	14,409	6,538	1,451	14,212
White Perch	614	279	1,834	426	193	1,113	699
Other Temperate Basses	7	3	6	(1)	(1)	(1)	2
Toadfishes	2	1	10	(1)	(1)	9	1
Triggerfishes/Filefishes	775	351	390	757	343	390	935
Tunas And Mackerels							
Atlantic Mackerel	1,520	690	1,874	2,943	1,335	3,236	2,799
King Mackerel**	8,719	3,956	965	7,156	3,247	812	9,519
Little Tunny / Atl. Bonito**	2,913	1,322	378	2,633	1,195	382	3,044
Pacific Bonito**	347	157	71	5	2	2	208
Spanish Mackerel	2,915	1,323	1,787	3,597	1,632	2,540	3,081
Other Tunas/Mackerels**	13,933	6,321	2,132	17,592	7,982	1,359	16,798
Wrasses							
California Sheephead	153	69	49	182	83	63	147
Cunner	10	4	94	61	28	103	35
Tautog	1,479	671	358	2,532	1,149	688	2,793
Other Wrasses	114	52	71	182	83	97	222
Other Fishes**	8,834	4,008	5,931	9,854	4,471	6,759	9,511
Total Fish	199,633	90,580	140,371	198,695	90,146	135,681	--

(1) Number or pounds less than 1,000 or less than 1 metric ton.

NOTE: -- ** Fish included in these groups are not equivalent to those with similar names listed in the commercial tables.

NOTE: Small differences in 1998 values from values appearing in FUS 1998 are due to post-publication data corrections.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 1999

Species	Charter boat			Private/Rental boat			Shore			Grand Total		
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Anchovies												
Northern Anchovy	-	-	-	(1)	0	3	54	24	100	54	24	103
Other Anchovies	-	-	-	(1)	(1)	(1)	-	-	-	(1)	(1)	(1)
Baracudas	628	285	58	429	194	54	135	61	27	1,192	540	139
Bluefish	1,386	629	443	5,393	2,447	1,430	1,831	831	1,983	8,610	3,907	3,856
California Scorpionfish	197	89	199	99	45	79	1	(1)	2	297	134	280
Cartilaginous Fishes												
Dogfish Sharks**	31	14	19	82	37	35	10	4	7	123	55	61
Skates/Rays**	4	2	1	109	50	54	81	37	27	194	89	82
Other Sharks**	448	203	29	2,149	975	132	193	88	48	2,790	1,266	209
Catfishes**												
Freshwater Catfishes	(1)	(1)	(1)	313	142	228	30	14	21	343	156	249
Saltwater Catfishes	3	1	1	367	167	194	284	129	265	654	297	460
Cods And Hakes												
Atlantic Cod	1,813	822	251	785	356	124	1	1	(1)	2,599	1,179	375
Pacific Cod	-	-	-	(1)	(1)	(1)	-	-	-	(1)	(1)	(1)
Pacific Hake	(1)	(1)	2	2	1	(1)	(1)	(1)	-	2	1	(1)
Pacific Tomcod	-	-	-	0	0	(1)	(1)	(1)	1	(1)	(1)	1
Pollock	63	29	29	110	50	109	23	10	80	196	89	218
Red Hake	59	27	118	0	0	0	-	-	-	59	27	(1)
Other Cods/Hakes	81	37	55	39	18	9	1	1	3	121	56	67
Croakers												
California Corbina	-	-	-	-	-	-	15	7	17	15	7	17
Queenfish	(1)	(1)	(1)	6	3	27	12	5	95	18	8	122
White Croaker	15	7	30	88	40	157	54	24	115	157	71	302
Other Croakers	196	89	12	258	117	32	45	20	50	499	226	94
Dolphins**	6,376	2,893	964	7,046	3,197	1,100	-	-	-	13,422	6,090	2,064
Drums												
Atlantic Croaker	615	279	806	6,256	2,839	7,648	757	343	1,636	7,628	3,461	10,090
Black Drum	87	40	21	1,532	695	523	393	178	180	2,012	913	724
Kingsfishes	27	12	41	1,262	573	2,251	898	408	1,826	2,187	993	4,118
Red Drum	1,036	470	171	8,592	3,898	2,112	847	384	165	10,475	4,752	2,448
Sand Seatrout	175	80	309	1,847	838	2,943	810	368	1,746	2,832	1,286	4,998
Silver Perch	(1)	(1)	(1)	66	30	204	36	16	169	102	46	373
Spot	24	11	68	982	446	1,917	658	299	1,749	1,664	756	3,734
Spotted Seatrout	812	368	602	11,768	5,340	9,322	965	438	679	13,545	6,146	10,603
Weakfish**	168	76	94	2,607	1,183	1,380	367	166	178	3,142	1,425	1,652
Other Drum	3	1	3	181	82	489	28	13	286	212	96	778
Eels**	(1)	(1)	1	12	5	6	(1)	(1)	7	12	5	14

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 1999

Species	Mode of fishing						Grand Total		
	Charter boat		Private/Rental boat		Shore		Thousand pounds	Metric tons	Total Numbers (thousands)
	Thousand pounds	Metric tons	Thousand pounds	Metric tons	Thousand pounds	Metric tons			
Flounders									
California Halibut**	157	71	1,126	511	15	7	1,298	589	123
Gulf Flounder	8	3	132	60	89	41	229	104	162
Rock Sole	1	1	2	1	4	2	7	4	5
Sanddabs	18	8	59	27	146	67	81	37	226
Southern Flounder	27	12	17	995	451	197	1,456	660	958
Starry Flounder	(1)	(1)	5	2	3	1	8	3	11
Summer Flounder	671	305	7,318	3,320	393	178	8,382	3,803	4,123
Winter Flounder	46	21	665	302	57	26	768	349	724
Other Flounders**	177	80	491	223	8	4	676	307	168
Greenlings									
Keel Greenling	11	5	84	38	19	9	114	52	89
Lingcod	465	211	904	410	28	13	1,397	634	172
Other Greenlings	(1)	(1)	1	1	2	1	3	2	9
Grunts									
Pigfish	4	2	208	94	145	66	357	162	933
White Grunt	116	52	1,208	548	57	26	1,381	626	1,749
Other Grunts	3	1	188	85	110	50	301	136	577
Herrings**	1	(1)	267	121	381	173	649	294	23,278
Jacks									
Blue Runner	41	18	383	174	326	148	750	340	861
Creville Jack	37	17	764	347	515	234	1,316	598	612
Florida Pompano	3	2	210	95	127	59	278	126	407
Greater Amberjack	2,177	988	505	229	14	6	2,696	1,223	139
Yellowtail	373	169	431	196	31	1	806	366	56
Other Jacks	485	220	204	93	118	53	807	366	1,360
Mullet**	(1)	(1)	1,099	499	1,141	518	2,240	1,017	5,711
Pacific Barracuda	1,302	591	685	311	1	(1)	1,988	902	423
Porgies									
Prifishes	9	4	842	382	681	309	1,532	695	5,113
Red Porgy	71	32	15	7	-	-	86	39	(1)
Scup**	459	208	1,336	606	90	41	1,885	855	3,251
Sheepshead	106	48	3,818	1,732	865	393	4,789	2,173	1,905
Other Porgies**	19	9	55	25	28	13	102	47	170
Puffers	(1)	(1)	14	6	46	21	60	27	175

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 1999

Species	Charter boat			Private/Rental boat			Shore			Grand Total		
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Rockfishes												
Black Rockfish	626	284	319	1,052	477	616	28	13	21	1,706	774	956
Blue Rockfish	453	206	421	256	116	237	3	1	3	712	323	673
Bocaccio	256	116	69	54	25	20	1	1	3	311	142	92
Brown Rockfish	32	14	29	111	50	86	6	3	6	149	67	121
Canary Rockfish	181	82	98	90	41	65	-	-	-	271	123	171
Chile Pepper Rockfish	5	2	36	6	3	7	-	-	-	11	5	(1)
Copper Rockfish	112	51	68	109	50	67	1	1	1	222	102	136
Greenspotted Rockfish	68	31	91	30	14	41	-	-	-	98	45	132
Olive Rockfish	63	29	56	13	6	12	(1)	(1)	(1)	76	35	68
Quilback Rockfish	17	8	10	60	27	31	1	(1)	(1)	78	35	41
Rockfishes	51	23	66	72	32	88	(1)	(1)	(1)	123	55	155
Widow Rockfish	73	33	39	5	2	6	-	-	-	78	35	45
Yellowtail Rockfish	606	275	318	112	51	85	(1)	(1)	(1)	718	326	403
Other Rockfishes**	1,046	475	1,319	588	267	586	7	3	9	1,641	745	1,914
Sablefishes	(1)	(1)	(1)	(1)	(1)	(1)	-	-	-	(1)	(1)	(1)
Sculpins												
Cabezon	26	12	5	146	66	38	37	17	17	209	95	60
Sculpins	1	1	1	7	3	15	5	2	27	13	6	43
Sea Bases												
Barred Sand Bass	268	122	215	388	176	237	4	2	3	660	300	455
Black Sea Bass	744	337	676	1,474	669	1,290	28	13	34	2,246	1,019	2,000
Epinephelus Groupers**	273	124	40	1,130	513	171	1	(1)	2	1,404	637	213
Kelp Bass	119	54	97	216	98	136	4	2	4	339	154	237
Mycteroperca Groupers**	1,587	720	219	2,947	1,337	425	61	28	8	4,595	2,085	662
Spotted Sand Bass	(1)	(1)	(1)	37	17	29	1	(1)	1	38	17	30
Other Sea Bases	4	2	7	53	24	190	9	4	85	66	30	282
Sea Chubs**												
Halibut	22	10	22	19	8	19	(1)	(1)	(1)	41	18	41
Opaleye	1	(1)	1	32	14	20	16	7	18	49	21	39
Other Sea Chubs	-	-	-	-	-	-	2	1	2	2	1	2
Seabrooks	10	4	8	58	26	95	10	5	18	78	35	121
Silversides												
Jacksmelt	(1)	(1)	(1)	3	1	8	99	45	264	102	46	272
Other Silversides	-	-	-	(1)	(1)	(1)	7	3	43	7	3	43
Smelts												
Surf Smelt	-	-	-	(1)	(1)	(1)	28	13	1,217	28	13	1,217
Other Smelts	-	-	-	-	-	-	(1)	(1)	4	(1)	(1)	4

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 1999

Species	Charter boat			Private/Rental boat			Shore			Grand Total		
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Snappers												
Gray Snapper	136	62	58	1,020	463	783	189	86	197	1,345	611	1,038
Lane Snapper	27	12	23	150	68	166	4	2	5	181	82	194
Red Snapper	2,667	1,210	824	1,985	900	442	(1)	(1)	(1)	4,652	2,110	1,266
Vermilion Snapper	378	172	390	162	74	150	-	-	-	540	246	540
Yellowtail Snapper	163	74	121	161	73	145	2	1	2	326	148	268
Other Snappers**	88	40	14	190	86	52	20	9	12	298	135	78
Surgeons	24	11	1	580	263	17	13	6	1	617	280	19
Surfperches												
Barred Surfperch	(1)	(1)	(1)	5	2	5	152	69	205	157	71	210
Black Perch	(1)	(1)	(1)	13	6	18	14	6	20	27	12	38
Pile Perch	-	-	-	6	3	5	14	6	13	20	9	18
Redtail Surfperch	-	-	-	-	-	-	57	26	60	57	26	60
Shiner Perch	-	-	-	(1)	(1)	(1)	5	2	91	5	2	91
Silver Surfperch	-	-	-	-	-	-	29	13	86	29	13	86
Striped Seaperch	-	-	-	11	5	11	28	13	33	39	18	44
Walleye Surfperch	-	-	-	1	0	2	18	8	66	19	8	68
White Seaperch	-	-	-	4	2	6	5	2	16	9	4	22
Other Surfperches	2	1	4	5	2	6	46	21	55	53	24	65
Temperate Basses												
Striped Bass	2,847	1,292	222	10,394	4,716	1,099	1,169	530	129	14,410	6,538	1,450
White Perch	(1)	(1)	(1)	283	128	709	143	65	404	426	193	1,113
Other Temperate Basses	(1)	(1)	(1)	(1)	(1)	(1)	-	-	-	(1)	(1)	(1)
Toadfishes	(1)	(1)	(1)	(1)	(1)	2	(1)	(1)	7	(1)	(1)	(1)
Triggerfishes/Fliefishes	402	182	224	346	157	161	9	4	5	757	343	390
Tunas And Mackerels												
Atlantic Mackerel	645	293	604	2,105	955	2,238	192	87	394	2,942	1,335	3,236
King Mackerel**	3,225	1,463	403	3,810	1,729	381	121	55	28	7,156	3,247	812
Little Tunny/Atlantic Bonito**	1,739	789	240	817	371	132	77	35	10	2,633	1,195	382
Pacific Bonito**	2	1	1	3	1	1	-	-	-	5	2	5
Spanish Mackerel	529	240	359	1,853	841	1,213	1,216	552	968	3,598	1,633	2,540
Other Tunas/Mackerels**	10,732	4,869	621	6,719	3,049	468	142	64	271	17,593	7,982	1,360
Wrasses												
California Sheephead	65	29	32	116	53	30	2	1	1	183	83	63
Cunner	2	1	10	18	8	13	41	18	80	61	27	103
Tautog	529	240	129	1,739	789	462	264	120	97	2,532	1,149	688
Other Wrasses	1	1	1	179	81	92	2	1	4	182	83	97
Other Fishes**	1,563	709	299	7,168	3,252	2,355	1,122	509	4,105	9,853	4,470	6,759
Grand Total	53,444	24,248	15,401	125,305	56,854	82,567	19,940	9,049	37,716	198,689	90,151	135,103

(1) Number or pounds less than 1,000 or less than 1 metric ton.

NOTE:- ** Fish included in these groups are not equivalent to those with similar names listed in the commercial tables.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1999

Species	Inland				Distance from U.S. shores 0 to 3 miles (2) (State Territorial Sea)				3 to 200 miles (Exclusive Economic Zone)				Grand Total		
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Anchovies															
Northern Anchovy	54	24	102	(1)	(1)	2							54	24	104
Other Anchovies	-	-	-	(1)	(1)	(1)							(1)	(1)	(1)
Barracudas	101	46	29	463	210	47				628	285	63	1,192	541	139
Bluefish	3,384	1,535	2,118	3,679	1,669	1,300				1,546	702	438	8,609	3,906	3,856
California Scorpionfish	10	5	9	202	92	187				84	38	83	296	135	279
Cartilaginous Fishes															
Dogfish Sharks**	73	33	28	38	17	17				13	6	16	124	56	61
Skates/Rays**	91	41	56	102	46	24				2	1	1	195	88	81
Other Sharks**	337	153	65	547	248	84				1,906	865	59	2,790	1,266	208
Catfishes**															
Freshwater Catfishes	343	156	249	(1)	(1)	(1)				(1)	(1)	(1)	343	156	249
Saltwater Catfishes	512	232	337	139	63	121				3	1	1	654	296	459
Cods And Hakes															
Atlantic Cod	1	1	(1)	265	120	51				2,332	1,058	324	2,598	1,179	375
Pacific Cod	(1)	(1)	(1)	(1)	(1)	(1)				(1)	(1)	(1)	(1)	(1)	(1)
Pacific Hake	-	-	-	-	-	-				2	1	3	2	1	3
Pacific Tomcod	(1)	(1)	1	(1)	(1)	(1)				-	-	-	(1)	(1)	1
Pollock	56	25	118	48	22	51				93	42	49	197	89	218
Red Hake	-	-	-	-	-	-				59	27	118	59	27	118
Other Cods/Hakes	1	1	4	11	5	3				109	49	59	121	55	66
Croakers															
California Corbina	1	1	1	14	6	15				-	-	-	15	7	16
Queenfish	10	4	74	8	4	49				(1)	(1)	(1)	18	8	123
White Croaker	104	47	192	449	203	101				4	2	9	157	71	302
Other Croakers	42	19	46	448	203	46				8	4	1	498	226	93
Dolphins**	101	46	17	880	399	154				12,442	5,645	1,894	13,423	6,090	2,065
Drums															
Atlantic Croaker	6,090	2,763	7,953	1,009	458	1,385				530	240	751	7,629	3,461	10,089
Black Drum	1,550	703	541	383	174	163				78	36	19	2,011	913	723
Kingfishes	1,018	462	1,834	1,104	501	2,175				66	30	109	2,188	993	4,118
Red Drum	8,052	3,653	2,049	1,985	901	342				439	199	57	10,476	4,753	2,448
Sand Seatrout	1,709	775	3,210	998	453	1,605				126	57	183	2,833	1,285	4,998
Silver Perch	67	30	194	34	15	176				(1)	(1)	3	101	45	373
Spot	970	440	2,275	691	314	1,453				2	1	5	1,663	755	3,733
Spotted Seatrout	9,871	4,479	8,348	3,322	1,507	2,032				352	160	224	13,545	6,146	10,604
Weakfish**	2,091	949	1,079	909	413	481				142	65	91	3,142	1,427	1,651
Other Drum	95	43	566	47	21	151				70	32	61	212	96	778
Eels**	(1)	(1)	9	12	5	2				(1)	(1)	3	12	5	14

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1999

Species	Distance from U.S. shores										Grand Total		
	Inland			0 to 3 miles (2) (State Territorial Sea)			3 to 200 miles (Exclusive Economic Zone)						
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	
Flounders													
California Halibut**	275	125	26	948	430	92	74	33	6	1,297	588	124	
Gulf Flounder	97	44	70	106	48	78	26	12	14	229	104	162	
Rock Sole	6	3	4	1	(1)	1	(1)	(1)	(1)	7	3	5	
Sandbars	37	17	89	32	15	92	12	5	44	81	37	225	
Southern Flounder	1,105	502	740	263	119	193	87	40	26	1,455	661	959	
Starry Flounder	6	3	9	2	1	1	(1)	(1)	1	8	4	11	
Summer Flounder	4,927	2,236	2,372	2,423	1,099	1,268	1,032	468	482	8,382	3,803	4,122	
Winter Flounder	686	311	642	68	31	69	14	6	13	768	348	724	
Other Flounders**	213	97	113	19	9	34	443	201	21	675	307	168	
Greenlings													
Kelp Greenling	62	28	47	52	24	41	(1)	(1)	(1)	114	52	88	
Lingcod	228	104	24	720	327	99	449	204	49	1,397	635	172	
Other Greenlings	1	1	3	2	1	5	(1)	(1)	(1)	3	2	8	
Grunts													
Pigfish	210	95	544	129	59	347	18	8	43	357	162	934	
White Grunt	223	101	302	380	173	596	778	353	852	1,381	627	1,750	
Other Grunts	131	59	155	152	69	258	16	7	164	299	135	577	
Herrings**	534	242	14,888	114	52	6,296	1	(1)	2,094	649	294	23,278	
Jacks													
Blue Runner	109	49	140	489	222	525	152	69	195	750	340	860	
Creville Jack	791	359	453	432	196	131	94	43	28	1,317	598	612	
Florida Pompano	259	117	149	309	140	244	25	11	13	593	268	406	
Greater Amberjack	14	6	(1)	500	227	23	2,182	990	117	2,696	1,223	140	
Yellowtail	-	-	-	744	338	51	63	28	6	807	366	57	
Other Jacks	153	69	129	192	87	782	482	210	449	807	366	1,360	
Mullets**	1,807	820	4,245	402	182	1,274	32	14	191	2,241	1,016	5,710	
Pacific Barracuda	12	5	3	1,471	668	313	505	229	107	1,988	902	423	
Porgies													
Pinfishes	971	440	3,113	481	218	1,720	81	37	279	1,533	695	5,112	
Red Porgy	(1)	(1)	(1)	16	7	22	70	32	59	86	39	81	
Scup**	1,361	618	2,295	375	170	676	150	68	280	1,886	856	3,251	
Sheepshead	3,289	1,492	1,398	1,034	469	385	465	211	122	4,788	2,172	1,905	
Other Porgies**	26	12	75	39	18	58	36	16	38	101	46	171	
Puffers	21	10	102	33	15	68	5	2	5	59	27	175	

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1999

Species	Inland				Distance from U.S. shores				3 to 200 miles (Exclusive Economic Zone)				Grand Total			
	Thousand pounds	Metric tons	Total Numbers (thousands)		Thousand pounds	Metric tons	Total Numbers (thousands)		Thousand pounds	Metric tons	Total Numbers (thousands)		Thousand pounds	Metric tons	Total Numbers (thousands)	
Rockfishes																
Black Rockfish	72	33	55		1,522	691	824		111	51	76		1,705	775	955	
Blue Rockfish	10	5	12		591	268	560		110	50	102		711	323	674	
Bocaccio	3	1	1		85	38	30		224	102	61		312	141	92	
Brown Rockfish	8	4	7		124	56	102		16	7	12		148	67	121	
Canary Rockfish	2	1	1		126	57	95		144	65	67		272	123	163	
Chili pepper Rockfish	-	-	-		1	(1)	2		10	4	41		11	4	43	
Copper Rockfish	67	31	42		107	49	72		88	40	115		98	45	133	
Greenspotted Rockfish	-	-	-		10	5	18		21	10	15		75	35	68	
Olive Rockfish	(1)	(1)	(1)		54	25	53		5	2	3		78	35	42	
Quillback Rockfish	46	21	23		27	12	16		16	7	17		122	55	154	
Rockfishes	(1)	(1)	(1)		106	48	137		16	7	17		122	55	154	
Widow Rockfish	-	-	-		10	5	8		68	31	36		78	36	44	
Yellowtail Rockfish	3	2	2		226	103	173		488	221	228		717	326	403	
Other Rockfishes**	17	8	16		936	425	940		687	312	958		1,640	745	1,914	
Sablefishes	-	-	-		(1)	(1)	(1)		(1)	(1)	(1)		(1)	(1)	(1)	
Sculpins																
Cabezon	49	22	13		144	65	42		16	7	5		209	94	60	
Sculpins	9	4	33		3	1	9		1	(1)	(1)		13	5	42	
Sea Bases																
Barred Sand Bass	71	32	44		442	200	312		148	67	100		661	299	456	
Black Sea Bass	162	74	197		445	202	424		1,638	743	1,379		2,245	1,019	2,000	
Epinephelus Grouper**	37	17	5		149	68	34		1,219	553	175		1,405	638	214	
Kelp Bass	5	2	5		309	140	214		24	11	17		338	153	236	
Mycteroperca Grouper**	295	134	43		841	382	134		3,459	1,570	474		4,595	2,086	651	
Spotted Sand Bass	36	16	28		2	1	2		(1)	(1)	(1)		38	17	30	
Other Sea Bases	12	6	62		14	6	88		40	18	132		66	30	282	
Sea Chubs**																
Halibut	2	1	2		39	18	39		1	(1)	(1)		42	19	41	
Opaleye	16	7	17		33	15	22		-	-	-		49	22	39	
Other Sea Chubs	1	(1)	(1)		2	1	1		-	-	-		3	1	1	
Seabreams	25	11	33		38	17	53		15	7	35		78	35	121	
Silversides																
Jacksmelt	86	39	224		16	7	48		(1)	(1)	(1)		102	46	272	
Other Silversides	6	3	37		1	(1)	6		-	-	-		7	3	43	
Smelts																
Surf Smelt	28	13	1,217		-	-	-		-	-	-		28	13	1,217	
Other Smelts	(1)	(1)	4		-	-	-		-	-	-		(1)	(1)	4	

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1999

Species	Inland				Distance from U.S. shores				3 to 200 miles (Exclusive Economic Zone)				Grand Total	
	Thousand pounds	Metric tons	Total Numbers (thousands)		Thousand pounds	Metric tons	Total Numbers (thousands)		Thousand pounds	Metric tons	Total Numbers (thousands)		Thousand pounds	Metric tons
Snappers														
Gray Snapper	506	229	570		324	147	254		516	234	214		1,346	610
Lane Snapper	19	9	24		53	24	69		109	50	102		181	83
Red Snapper	45	21	8		815	370	258		3,791	1,720	1,000		4,651	2,111
Vermilion Snapper	(1)	(1)	(1)		91	41	106		450	204	434		541	245
Yellowtail Snapper	1	(1)	(1)		88	40	73		237	108	194		326	148
Other Snappers**	21	9	14		92	42	28		185	84	36		298	135
Sturgeons	605	275	18		12	6	1		(1)	(1)	(1)		617	281
Surperches														
Barred Surperch	2	1	3		155	70	207		-	-	-		157	71
Black Perch	14	6	21		13	6	17		-	-	-		27	12
Pile Perch	16	7	14		5	2	3		-	-	-		21	9
Redtail Surperch	12	5	11		45	21	49		-	-	-		57	26
Shiner Perch	5	2	84		0	0	7		-	-	-		5	2
Silver Surperch	11	5	43		18	8	43		-	-	-		29	13
Striped Seaperch	22	10	28		17	8	16		-	-	-		39	18
Walleye Surperch	11	5	35		8	4	33		-	-	-		19	9
White Seaperch	5	2	9		4	2	12		-	-	-		9	4
Other Surperches	37	17	31		16	7	32		(1)	(1)	1		53	24
Temperate Basses														
Striped Bass	7,760	3,521	988		5,824	2,642	404		826	375	59		14,410	6,538
White Perch	420	191	1,088		5	2	25		(1)	(1)	(1)		425	193
Other Temperate Basses	(1)	(1)	(1)		-	-	-		-	-	-		(1)	(1)
Toadfishes	(1)	(1)	5		(1)	(1)	4		(1)	(1)	(1)		(1)	(1)
Triggrifishes/Fllefishes	13	6	10		155	70	97		588	267	284		756	343
Tunas And Mackerels														
Atlantic Mackerel	423	192	607		1,274	578	1,502		1,245	565	1,127		2,942	1,335
King Mackerel**	39	18	18		2,550	1,157	332		4,567	2,072	472		7,156	3,247
Little Tunny/Atlantic Bonito**	33	15	5		919	417	149		1,682	763	228		2,634	1,195
Pacific Bonito**	(1)	(1)	(1)		5	2	1		(1)	(1)	(1)		5	2
Spanish Mackerel	956	434	758		1,967	892	1,391		674	306	391		3,597	1,632
Other Tunas/Mackerels**	186	84	169		740	336	360		16,667	7,562	830		17,593	7,982
Wrasses														
California Sheephead	2	1	1		172	78	58		8	4	4		182	83
Cunner	52	24	77		7	3	16		2	1	10		61	28
Tautog	1,434	651	385		722	328	218		376	171	85		2,532	1,150
Other Wrasses	(1)	(1)	2		49	22	33		134	61	62		183	83
Other Fishes**	3,387	1,537	4,936		3,087	1,401	1,363		3,380	1,533	460		9,854	4,471
Grand Total	71,393	32,395	75,720		54,950	24,933	39,568		72,342	32,823	20,385		198,685	90,151
														135,673

(1) Number or pounds less than 1,000 or less than 1 metric ton.

(2) Except West Florida where the state territorial seas extend 0 to 10 miles.

NOTE: - ** Fish included in these groups are not equivalent to those with similar names listed in the commercial tables.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1990-1999

Year	Barracudas			Bluefish		
	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)
1990	1,225	158	301	30,905	11,567	5,306
1991	1,349	227	755	33,957	12,420	6,831
1992	1,105	173	627	24,775	7,479	4,511
1993	1,323	196	592	20,636	5,917	4,384
1994	1,656	211	695	15,988	6,056	6,349
1995	1,627	246	673	14,897	5,411	5,552
1996	1,956	229	616	12,116	4,426	5,591
1997	1,718	162	437	14,555	5,585	7,609
1998	1,162	150	396	12,774	4,430	5,340
1999	1,192	139	393	8,610	3,856	8,022

Year	Cartilaginous Fishes			Catfishes		
	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)
1990	4,983	640	3,253	2,285	1,774	12,642
1991	2,466	682	4,067	3,770	2,479	16,741
1992	5,074	544	4,113	2,180	1,704	12,862
1993	5,294	646	4,708	2,158	1,764	12,017
1994	4,349	596	5,903	1,886	1,595	14,223
1995	9,953	602	5,449	1,565	1,259	13,496
1996	4,954	557	6,107	1,585	1,008	8,334
1997	4,048	565	6,791	1,886	916	8,573
1998	3,312	523	6,787	1,663	973	7,961
1999	3,108	351	6,181	997	709	7,702

Year	Cods and Hakes			Dolphins		
	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)
1990	9,750	3,255	1,037	12,773	1,840	85
1991	10,561	2,802	951	17,205	2,618	524
1992	2,994	1,178	473	9,788	1,318	166
1993	7,484	1,953	1,477	10,894	1,762	177
1994	5,123	1,636	1,590	12,795	2,215	236
1995	6,019	1,648	1,600	19,565	2,268	337
1996	3,906	877	832	12,508	1,668	241
1997	3,651	1,043	782	23,015	2,283	234
1998	3,551	849	1,049	12,121	1,889	187
1999	2,977	781	974	13,423	2,065	217

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1990-1999

Year	Drums			Flounders		
	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)
1990	23,937	30,261	31,030	9,855	8,311	8,129
1991	40,235	49,310	56,405	13,136	10,954	12,772
1992	35,270	40,647	35,462	10,101	7,303	8,775
1993	33,673	38,143	39,676	13,252	10,525	20,420
1994	38,698	48,715	48,958	13,815	9,890	15,376
1995	42,200	41,412	41,611	11,270	6,666	16,079
1996	39,059	35,128	38,042	14,858	10,526	16,087
1997	44,586	39,757	50,684	16,967	10,286	16,849
1998	41,245	36,520	44,142	16,614	9,207	19,214
1999	43,801	39,517	49,966	12,905	6,500	19,855

Year	Grunts			Herrings		
	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)
1990	2,384	4,503	4,705	903	13,516	7,331
1991	3,176	5,125	10,713	3,082	31,300	2,641
1992	2,979	4,831	6,757	2,034	23,974	4,959
1993	2,347	4,462	7,107	753	28,244	6,499
1994	2,890	5,632	8,256	762	26,411	12,137
1995	3,111	5,534	7,868	976	26,010	4,947
1996	2,449	3,962	6,395	1,096	22,735	8,402
1997	2,596	4,558	6,798	1,913	36,824	3,966
1998	1,903	3,436	5,805	964	26,927	7,316
1999	2,038	3,259	7,210	648	23,278	7,625

Year	Jacks			Mulletts		
	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)
1990	4,230	2,044	3,981	2,061	2,283	1,522
1991	7,479	5,185	5,240	5,036	4,883	796
1992	5,935	5,550	6,017	5,185	5,240	331
1993	8,423	5,783	6,659	2,389	3,947	239
1994	6,270	4,151	7,197	3,095	3,893	495
1995	4,878	3,318	5,630	2,115	4,180	594
1996	6,057	3,625	5,091	1,902	2,796	937
1997	8,179	4,954	7,179	2,473	2,857	401
1998	10,218	4,200	7,959	2,673	3,240	516
1999	6,968	3,435	6,775	2,240	5,710	904

See footnotes at end of page.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1990-1999

Year	Porgies			Puffers		
	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)
1990	8,967	14,091	8,076	176	381	830
1991	14,608	23,440	14,999	302	830	2,066
1992	13,390	17,502	12,316	359	743	1,357
1993	11,373	15,738	10,584	167	338	986
1994	10,055	13,659	13,049	97	248	893
1995	10,982	14,696	12,175	132	255	694
1996	9,180	13,475	11,115	115	247	579
1997	8,495	13,113	14,589	153	284	762
1998	7,733	10,777	13,803	63	148	615
1999	8,396	10,519	12,630	59	175	1,117

Year	Sculpins			Sea Basses		
	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)
1990	1	5	118	7,743	6,929	12,428
1991	2	2	53	10,401	9,003	14,985
1992	7	9	45	9,759	6,628	12,587
1993	278	245	858	14,289	10,715	13,853
1994	187	87	289	11,787	7,921	14,503
1995	191	140	453	15,323	10,970	17,394
1996	294	164	386	10,893	7,413	12,838
1997	213	138	468	11,315	7,927	15,895
1998	311	129	319	8,478	3,560	11,888
1999	222	102	228	9,349	3,869	14,627

Year	Searobins			Snappers		
	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)
1990	188	329	4,980	4,712	3,389	3,089
1991	317	486	7,788	7,669	5,485	11,338
1992	205	261	4,507	7,430	4,208	7,447
1993	156	245	7,481	8,213	4,989	7,940
1994	48	125	4,582	7,227	4,083	6,397
1995	22	101	4,710	6,158	3,534	6,591
1996	212	193	5,094	5,150	2,674	6,147
1997	242	238	5,528	7,585	3,504	8,259
1998	106	202	3,796	7,098	3,341	7,361
1999	78	122	5,950	7,342	3,385	7,332

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1990-1999

Year	Temperate Basses			Toadfishes		
	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)
1990	2,915	1,601	3,850	7	32	2,633
1991	4,541	2,494	5,396	7	134	2,867
1992	4,683	1,977	5,538	19	152	1,631
1993	6,783	2,895	7,321	17	39	2,638
1994	7,888	2,827	10,490	28	61	1,720
1995	13,439	2,382	12,303	1	30	1,618
1996	14,538	3,560	14,882	1	14	1,048
1997	17,677	4,314	20,155	(1)	33	1,120
1998	14,080	3,323	18,577	2	10	998
1999	14,835	2,564	15,526	(1)	9	911

Year	Triggerfishes/Filefishes			Tunas And Mackerels		
	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)
1990	2,365	1,084	259	31,457	8,397	3,264
1991	2,428	1,000	427	33,098	10,783	2,949
1992	1,654	796	307	24,513	7,067	3,027
1993	1,547	767	232	31,258	8,603	5,487
1994	1,414	740	179	36,281	12,039	5,507
1995	1,207	671	192	37,424	9,257	5,811
1996	848	468	268	34,412	9,164	6,477
1997	1,086	511	232	41,142	11,500	6,619
1998	775	390	233	30,347	7,207	4,114
1999	757	390	196	33,926	8,331	3,916

Year	Wrasses			California Scorpionfish		
	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)
1990	5,424	2,837	3,739	-	-	-
1991	8,696	3,518	4,611	-	-	-
1992	8,238	3,088	3,313	-	-	-
1993	6,536	2,879	3,532	166	148	72
1994	4,148	1,761	2,484	258	242	126
1995	5,129	2,058	3,287	224	212	139
1996	3,547	1,292	1,740	339	342	234
1997	2,596	929	1,820	206	243	132
1998	1,756	572	2,053	185	160	66
1999	2,957	951	3,101	297	280	105

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1990-1999

Year	Croakers			Greenlings		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
1993	583	1,217	1,145	1,814	497	174
1994	446	739	521	1,016	294	109
1995	695	1,132	673	962	252	144
1996	919	1,544	864	1,369	408	285
1997	556	774	712	1,061	299	244
1998	425	610	355	1,407	270	299
1999	689	533	469	1,516	269	248
Year	Pacific Barracuda			Rockfishes		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
1993	1,687	428	822	6,087	4,901	1,447
1994	2,015	526	1,239	4,810	3,797	698
1995	2,490	563	816	4,188	2,918	666
1996	1,011	234	350	4,811	3,740	808
1997	1,699	374	475	3,796	2,986	679
1998	2,057	450	752	5,592	4,134	735
1999	1,988	423	475	6,196	4,943	478
Year	Sea Chubs			Silversides		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
1993	87	129	59	439	1,078	152
1994	106	107	42	138	323	96
1995	224	217	31	317	801	171
1996	78	72	18	296	658	120
1997	66	58	12	169	492	242
1998	87	108	46	152	395	158
1999	92	82	13	109	316	96
Year	Smelts			Surfperches		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
1993	159	1,628	31	756	1,364	608
1994	90	1,208	(1)	442	819	365
1995	122	1,416	(1)	710	1,181	648
1996	474	4,351	4	950	1,464	686
1997	120	1,617	9	640	1,179	755
1998	357	4,825	9	1,006	1,435	488
1999	28	1,221	7	415	701	356

(1) Number or pounds less than 1,000 or less than 1 metric ton.

NOTE: The MRFSS was not conducted on the Pacific Coast from 1990 to 1992.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL FINFISH HARVEST (A+B1) AND RELEASED (B2), BY STATE, 1998 and 1999

State	1998		
	<u>Pounds</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)
Maine	705	666	945
New Hampshire	588	399	511
Massachusetts	9,252	2,753	10,018
Rhode Island	3,567	1,488	2,012
Connecticut	3,424	1,478	3,223
New York	8,458	3,684	5,460
New Jersey	13,632	5,668	15,904
Delaware	2,463	1,628	3,988
Maryland	8,311	6,425	14,542
Virginia	13,993	12,041	15,295
North Carolina	15,370	7,248	10,374
South Carolina	3,356	2,516	4,418
Georgia	1,049	864	745
Florida	57,742	59,623	67,747
Alabama	5,093	3,628	2,336
Mississippi	2,623	1,791	2,001
Louisiana	18,081	9,595	13,883
Washington	5,121	5,218	1,844
Oregon	3,775	1,713	528
California	23,021	11,947	7,203
Grand Total	199,624	140,373	182,977

State	1999		
	<u>Pounds</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)
Maine	802	944	917
New Hampshire	833	606	526
Massachusetts	7,626	3,731	7,218
Rhode Island	3,817	2,191	2,675
Connecticut	2,575	1,366	3,191
New York	9,733	4,028	9,541
New Jersey	14,181	5,627	22,082
Delaware	2,021	1,486	3,592
Maryland	5,396	4,100	13,079
Virginia	11,507	9,518	12,851
North Carolina	18,034	6,392	10,256
South Carolina	2,628	2,190	2,722
Georgia	1,772	1,792	485
Florida	60,483	59,837	75,436
Alabama	6,568	3,678	4,631
Mississippi	3,027	3,090	1,656
Louisiana	20,977	12,444	14,477
Washington	3,088	2,480	1,776
Oregon	2,927	1,154	265
California	20,682	9,002	5,768
Grand Total	198,677	135,656	193,144

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL NUMBERS OF ANGLERS AND TRIPS BY STATES, 1998 AND 1999

U.S. RECREATIONAL NUMBERS OF ANGLERS AND ANGLER TRIPS BY STATE, 1998 AND 1999

State	1998			
	Out-of-State Anglers	In-State Anglers		Number of Angler Trips
		From Coastal Counties	From Non-Coastal Counties	
	----- Numbers in thousands -----			
Maine	115	103	16	676
New Hampshire	58	57	8	277
Massachusetts	228	342	65	3,451
Rhode Island	187	96	-	1,100
Connecticut	73	290	-	1,292
New York	42	427	6	3,431
New Jersey	357	400	29	4,308
Delaware	188	103	-	920
Maryland	307	423	29	2,839
Virginia	291	302	38	2,956
North Carolina	635	312	143	4,461
South Carolina	416	137	85	1,714
Georgia	19	69	28	572
Florida	2,439	2,344	-	22,324
Alabama	100	101	56	968
Mississippi	68	82	25	828
Louisiana	106	434	41	2,673
Washington	42	326	21	1,463
Oregon	51	168	13	649
California	198	1,099	65	4,905
Grand Total	5,920	7,615	668	61,807

State	1999			
	Out-of-State Anglers	In-State Anglers		Number of Angler Trips
		From Coastal Counties	From Non-Coastal Counties	
	----- Numbers in thousands -----			
Maine	95	112	10	629
New Hampshire	60	55	8	285
Massachusetts	174	240	57	2,983
Rhode Island	214	108	-	1,262
Connecticut	55	243	-	1,319
New York	28	337	11	2,903
New Jersey	303	493	30	4,825
Delaware	168	69	-	800
Maryland	349	383	41	2,883
Virginia	187	309	66	2,694
North Carolina	805	324	164	4,555
South Carolina	221	132	61	1,213
Georgia	20	59	32	473
Florida	2,282	2,154	-	19,491
Alabama	143	131	92	1,170
Mississippi	75	76	26	806
Louisiana	91	409	33	2,621
Washington	31	329	23	1,256
Oregon	55	184	14	554
California	158	956	53	4,150
Grand Total	5,514	7,103	721	56,872

NOTE: All counties in RI, CT, DE, and FL are considered coastal.

NOTE: Small differences in 1998 values from values appearing in FUS 1998 are due to post-publication data corrections.

WORLD AQUACULTURE AND COMMERCIAL CATCHES, 1989-98

Year	World aquaculture			World commercial catch			Grand Total
	Inland	Marine	Total	Inland	Marine	Total	
	-----Metric tons-----			-----Metric tons-----			
	<u>Live weight</u>			<u>Live weight</u>			
1989	7,236,775	5,091,399	12,328,174	6,232,159	83,058,066	89,290,165	101,618,339
1990	7,698,867	5,385,400	13,084,267	6,436,889	79,073,661	85,510,550	98,594,817
1991	7,902,884	5,838,041	13,740,925	6,199,956	78,279,764	84,479,720	98,220,645
1992	8,929,908	6,544,938	15,474,846	6,133,940	79,168,140	85,302,080	100,776,926
1993	10,132,179	7,764,215	17,896,394	6,524,486	79,983,088	86,507,574	104,403,968
1994	11,696,144	9,123,582	20,819,726	6,705,292	84,731,353	91,436,645	112,256,371
1995	13,628,935	10,923,134	24,552,069	7,248,974	84,327,829	91,576,803	116,128,872
1996	15,408,482	11,411,591	26,820,073	7,433,018	86,041,137	93,474,155	120,294,228
1997	17,029,584	11,794,654	28,824,238	7,532,353	86,086,701	93,619,054	122,443,292
1998	18,118,961	12,744,106	30,863,067	8,003,441	78,295,912	86,299,353	117,162,420

Note:--Data for marine mammals and aquatic plants are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO).

WORLD AQUACULTURE AND COMMERCIAL CATCHES OF FISH, CRUSTACEANS, AND MOLLUSKS, 1997-98

Species group	1997			1998		
	Aquaculture	Catch	Total	Aquaculture	Catch	Total
	-----Metric tons-----			-----Metric tons-----		
	<u>Live-weight</u>			<u>Live-weight</u>		
Herrings, sardines, anchovies	-	21,596,852	21,596,852	-	16,539,574	16,539,574
Carp, barbel, cyprinids	13,230,197	616,556	13,846,753	14,142,298	603,331	14,745,629
Cod, hake, haddock	307	10,364,350	10,364,657	148	10,332,547	10,332,695
Jack, mullet, saurids	183,983	10,529,223	10,713,206	204,498	8,354,345	8,558,843
Redfish, basses, congers	178,901	7,300,692	7,479,593	201,380	6,984,024	7,185,404
Tunas, bonitos, billfishes	2,089	5,122,071	5,124,160	5,140	5,545,977	5,551,117
Mackerel, snoeks, cutlassfishes	-	5,284,903	5,284,903	-	4,985,495	4,985,495
Salmons, trouts, smelts	1,225,112	921,686	2,146,798	1,291,444	889,059	2,180,503
Tilapia	938,497	562,036	1,500,533	972,773	598,453	1,571,226
Flatfish	-	1,024,984	1,024,984	33,445	925,638	959,083
Shads	-	734,453	734,453	-	808,827	808,827
Sharks, rays, chimaeras	-	808,341	808,341	-	800,129	800,129
River eels	232,908	14,677	247,585	222,547	12,785	235,332
Sturgeons, paddlefish	2,025	4,391	6,416	2,034	3,714	5,748
Other fishes	2,754,268	14,833,962	17,588,230	2,969,658	15,291,012	18,260,670
Shrimp	1,000,565	2,600,256	3,600,821	1,113,887	2,713,450	3,827,337
Crabs	70,948	1,203,428	1,274,376	77,411	1,284,838	1,362,249
Lobsters	67	249,569	249,636	71	237,875	237,946
Krill	-	82,508	82,508	-	81,181	81,181
Other crustaceans	301,307	1,771,603	2,072,910	372,678	2,046,358	2,419,036
Oysters	3,082,260	184,737	3,266,997	3,537,830	157,409	3,695,239
Clams, cockles, arkshells	1,941,872	807,171	2,749,043	2,226,025	821,273	3,047,298
Squids, cuttlefishes, octopus	4	3,387,678	3,387,682	33	2,604,437	2,604,470
Mussels	1,136,050	240,090	1,376,140	1,377,830	248,293	1,626,123
Scallops	1,269,063	465,669	1,734,732	874,225	515,660	1,389,885
Abalones, winkles, conchs	3,893	116,634	120,527	3,749	90,070	93,819
Other mollusks	1,148,154	2,130,124	3,278,278	1,123,172	2,177,898	3,301,070
Sea urchins, other echinoderms	74	116,477	116,551	30	106,447	106,477
Miscellaneous	121,694	543,933	665,627	110,761	539,254	650,015
Total	28,824,238	93,619,054	122,443,292	30,863,067	86,299,353	117,162,420

Note:--Data for 1997 are revised. Data for marine mammals and aquatic plants are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO).

WORLD AQUACULTURE AND COMMERCIAL CATCHES BY COUNTRY OF FISH, CRUSTACEANS, AND MOLLUSKS, 1997-98

Country	1997			1998		
	Aquaculture	Catch	Total	Aquaculture	Catch	Total
	-----Metric tons----- Live-weight			-----Metric tons----- Live-weight		
China	19,315,623	15,722,344	35,037,967	20,795,367	17,229,957	38,025,324
Japan	806,534	5,916,155	6,722,689	766,812	5,259,089	6,025,901
India	1,862,250	3,517,084	5,379,334	2,029,619	3,214,765	5,244,384
United States	438,331	4,983,468	5,421,799	445,123	4,708,980	5,154,103
Russian Federation	53,171	4,661,853	4,715,024	63,195	4,454,759	4,517,954
Indonesia	662,547	3,791,025	4,453,572	696,880	3,698,850	4,395,730
Peru	7,381	7,869,871	7,877,252	7,732	4,338,437	4,346,169
Chile	272,346	5,811,567	6,083,913	293,044	3,265,306	3,558,350
Thailand	552,356	2,877,622	3,429,978	569,577	2,900,320	3,469,897
Norway	367,298	2,856,017	3,223,315	408,862	2,850,428	3,259,290
South Korea	392,387	2,204,047	2,596,434	327,462	2,026,934	2,354,396
Philippines	330,441	1,805,806	2,136,247	311,933	1,827,971	2,139,904
Iceland	3,663	2,205,944	2,209,607	3,868	1,681,951	1,685,819
Viet Nam	494,000	1,078,668	1,572,668	521,870	1,130,660	1,652,530
Denmark	38,908	1,826,852	1,865,760	42,368	1,557,335	1,599,703
Bangladesh	512,738	829,426	1,342,164	583,877	839,141	1,423,018
Spain	239,136	1,143,122	1,382,258	313,518	1,106,557	1,420,075
Taiwan	257,530	1,038,048	1,295,578	240,435	1,076,288	1,316,723
Mexico	39,500	1,489,020	1,528,520	40,989	1,181,402	1,222,391
Malaysia	103,360	1,172,922	1,276,282	129,009	1,153,719	1,282,728
All others	2,074,738	20,818,193	22,892,931	2,271,527	20,796,504	23,068,031
Total	28,824,238	93,619,054	122,443,292	30,863,067	86,299,353	117,162,420

Note:--For the United States the weight of clams, oyster, scallop, and other mollusk includes the shell weight. This weight is not included in U.S. landings shown elsewhere. Data for marine mammals and aquatic plants are excluded. Source:--Food and Agriculture Organization of the United Nations (FAO).

WORLD AQUACULTURE AND COMMERCIAL CATCHES BY AREA OF FISH, CRUSTACEANS, AND MOLLUSKS, 1997-98

Country	1997			1998		
	Aquaculture	Catch	Total	Aquaculture	Catch	Total
	-----Metric tons----- Live-weight			-----Metric tons----- Live-weight		
Marine Areas						
Atlantic Ocean:						
Northeast	1,091,434	11,726,845	12,818,279	1,240,192	10,935,442	12,175,634
Northwest	71,091	2,047,525	2,118,616	69,621	1,960,325	2,029,946
Eastern central	-	3,550,023	3,550,023	-	3,573,635	3,573,635
Western central	72,179	1,800,648	1,872,827	64,729	1,778,297	1,843,026
Southeast	3,070	1,116,420	1,119,490	3,276	1,264,153	1,267,429
Southwest	10,180	2,729,593	2,739,773	11,030	2,349,737	2,360,767
Mediterranean and Black Sea	264,354	1,436,622	1,700,976	326,847	1,405,860	1,732,707
Indian Ocean:						
Eastern	356,226	3,982,936	4,339,162	401,435	3,984,247	4,385,682
Western	37,311	4,166,674	4,203,985	55,479	3,864,908	3,920,387
Pacific Ocean:						
Northeast	70,986	2,839,939	2,910,925	84,305	2,778,370	2,862,675
Northwest	8,229,590	24,606,690	32,836,280	8,752,088	24,772,561	33,524,649
Eastern central	45,278	1,647,981	1,693,259	52,749	1,361,434	1,414,183
Western central	494,656	9,114,173	9,608,829	523,332	9,279,250	9,802,582
Southeast	409,358	14,407,215	14,816,573	444,738	13,040,608	13,485,346
Southwest	89,817	820,212	910,029	106,038	854,809	960,847
Antarctic	-	93,205	93,205	-	92,276	92,276
Inland Areas						
Africa	98,355	1,969,434	2,067,789	159,471	1,967,411	2,126,882
Asia	16,524,922	4,609,331	21,134,253	17,603,550	5,015,999	22,619,549
Europe	429,807	406,403	836,210	430,507	454,993	885,500
North America	390,506	204,735	595,241	392,340	212,708	605,048
South America	131,762	321,662	453,424	137,854	330,251	468,105
Oceania	3,356	20,788	24,144	3,486	22,079	25,565
Total	28,824,238	93,619,054	122,443,292	30,863,067	86,299,353	117,162,420

Note:--Data for marine mammals and aquatic plants are excluded. Source:--Food and Agriculture Organization of the United Nations (FAO).

WORLD IMPORTS AND EXPORTS OF SEVEN FISHERY COMMODITY GROUPS, BY LEADING COUNTRIES, 1994-98

Country	1994	1995	1996	1997	1998
----- Thousand U.S. dollars -----					
IMPORTS:					
Japan	16,140,465	17,853,481	17,023,945	15,539,507	12,826,543
United States	7,043,431	7,141,428	7,080,411	8,138,840	8,578,766
Spain	2,638,737	3,105,684	3,134,893	3,069,601	3,545,751
France	2,796,719	3,221,298	3,194,133	3,062,051	3,505,333
Italy	2,257,462	2,281,316	2,590,985	2,571,868	2,808,587
Germany	2,316,449	2,478,817	2,542,957	2,362,914	2,623,741
United Kingdom	1,880,350	1,910,091	2,065,025	2,141,619	2,384,028
Denmark	1,415,239	1,573,732	1,618,669	1,521,062	1,704,234
Hong Kong	1,647,106	1,831,511	1,928,143	2,096,894	1,611,747
Netherlands	1,017,635	1,191,857	1,141,647	1,107,443	1,230,199
Other Countries	11,968,712	13,529,425	14,907,441	14,964,472	14,158,170
Total	51,122,305	56,118,640	57,228,249	56,576,271	54,977,099
EXPORTS:					
Thailand	4,190,036	4,449,457	4,117,865	4,329,541	4,031,279
Norway	2,718,132	3,122,662	3,415,696	3,399,229	3,661,174
Denmark	2,359,034	2,459,629	2,698,976	2,648,911	2,897,707
China	2,320,125	2,835,021	2,856,986	2,937,281	2,656,117
United States	3,229,585	3,383,589	3,147,858	2,850,311	2,400,338
Canada	2,182,078	2,314,413	2,291,261	2,270,725	2,265,236
Indonesia	1,583,416	1,666,752	1,678,222	1,620,628	1,628,494
Chile	1,303,974	1,704,260	1,697,211	1,781,805	1,596,800
Taiwan	1,804,050	1,809,166	1,762,136	1,779,800	1,579,836
United Kingdom	1,180,158	1,195,477	1,307,859	1,264,447	1,549,305
Other Countries	24,416,772	26,778,308	27,853,752	28,402,497	27,005,955
Total	47,287,360	51,718,734	52,827,822	53,285,175	51,272,241

Note:-- Data for 1994-1997 are revised. Data on imports and exports cover the international trade of 176 countries or areas. The total value of exports is consistently less than the value of imports, probably because charges for insurance, freight, and similar expenses were included in the import value, but not in the export value. The seven fishery commodity groups covered by this table are: 1. Fish, fresh, chilled or frozen; 2. Fish, dried, salted, or smoked; 3. Crustaceans and mollusks, fresh, dried, salted, etc.; 4. Fish products and preparations, whether or not in airtight containers; 5. Crustacean and mollusk products preparations, whether or not in airtight containers; 6. Oils and fats, crude or refined, of aquatic animal origin; and 7. Meals, solubles, and similar animal foodstuffs of aquatic animal origin.

Source:—Food and Agriculture Organization of the United Nations (FAO).

DISPOSITION OF WORLD AQUACULTURE AND COMMERCIAL CATCHES, 1994-98

Item	1994	1995	1996	1997	1998
----- Percent of Total -----					
Marketed fresh	24.1	28.9	31.2	34.5	36.1
Frozen	23.5	23.2	22.6	21.9	22.9
Canned	11.6	11.2	10.6	10.6	11.1
Cured	11.0	10.1	9.7	9.1	9.6
Reduced to meal and oil (1)	28.3	25.0	24.2	22.3	18.8
Miscellaneous purposes	1.5	1.6	1.7	1.6	1.5
Total	100.0	100.0	100.0	100.0	100.0

Note:-- Data for 1994-1997 are revised. Data for marine mammals and aquatic plants are excluded.

(1) Only whole fish destined for the manufacture of oils and meals are included. Raw material for reduction derived from fish primarily destined for marketing fresh, frozen, canned, cured, and miscellaneous purposes is excluded; such waste quantities are included under the other disposition channels. Source:—Food and Agriculture Organization of the United Nations (FAO).

Processed Fishery Products

FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 1999 the U.S. production of raw (uncooked) fish fillets and steaks, including blocks, was 369.3 million pounds—53.2 million pounds less than the 422.4 million pounds in 1998. These fillets and steaks were valued at \$834.5 million. Alaska pollock fillets and blocks led all species with 143.8 million pounds—39 percent of the total. Production of groundfish fillets and steaks (see Glossary Section—Groundfish) was 219.0 million pounds.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 268.3 million pounds valued at \$332.5 million compared with the 1998 production of 253.5 million pounds valued at \$274.8 million.

The total production of fish sticks amounted to 65.0 million pounds valued at \$63.4 million. The total production of fish portions amounted to 203.3 million pounds valued at \$269.1 million.

BREADED SHRIMP. The production of breaded shrimp in 1999 was 119.1 million pounds valued at \$351.9 million, compared with the 1998 production of 109.5 million pounds valued at \$333.3 million.

FROZEN FISHERY TRADE. In 1999, stocks of frozen fishery products in cold storage were at a low of 317.4 million pounds on February 28 and a high of 388.2 million pounds on December 31. Cold storage holdings of shrimp products were at a high of 54.2 million pounds on December 31 and a low of 42.0 million pounds on May 31. Holdings of saltwater fillets and steaks reached a high of 76.8 million pounds on November 30 and were at a low of 58.9 million pounds on February 28. Holdings of blocks and slabs were at a high of 62.3 million pounds on January 31 and a low of 37.0 million pounds on March 31. Surimi reached a high of 23.3 million pounds on September 30 and was at a low of 13.1 million pounds on December 31. Analog Products reached a high of 5.8 million pounds on May 31 and a low of 4.1 million pounds on July 31.

CANNED PRODUCTS

CANNED FISHERY PRODUCTS. The pack of canned fishery products in the 50 states, American Samoa, and Puerto Rico was 1.5 billion pounds valued at \$1.8 billion—a decrease of 34.1 million pounds, but an increase of \$172.5 million compared with the 1998

pack. The 1999 pack included 986.6 million pounds valued at \$1.4 billion for human consumption and 544.3 million pounds valued at \$349.8 million for bait and animal food.

CANNED SALMON. The 1999 U.S. pack of salmon was 162.5 million pounds valued at \$273.5 million, compared with 162.1 million pounds valued at \$252.8 million packed in 1998.

CANNED SARDINES. The pack of Maine sardines (small herring) was 11.8 million pounds valued at \$19.5 million, a decrease of 4.1 million pounds and \$9.5 million compared with 1998. There were 3.7 million pounds of herring valued at \$6.6 million packed in 1999 — a decrease of 2.2 million pounds and \$4.6 million than the 1998 pack.

CANNED TUNA. The U.S. pack of tuna was 680.9 million pounds valued at \$983.0 million—an increase of 53.8 million pounds in quantity and \$64.3 million in value compared with the 1998 pack. The pack of albacore tuna was 196.8 million pounds—11.5 million pounds more than the 185.3 million pounds produced in 1998. Albacore tuna comprised 30 percent of the tuna pack in 1999. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 484.1 million pounds—42.4 million pounds more than the 441.7 million pounds packed in 1998.

CANNED CLAMS. The 1999 U.S. pack of clams (whole, minced, chowder, juice, and specialties) was 113.4 million pounds valued at \$104.9 million—a decrease of 11.5 million pounds and \$9.7 million less in value than in 1998. The pack of whole and minced clams was 36.6 million pounds—7.0 million pounds less than 1998 accounting for 32 percent of the total clam pack. Clam chowder and clam juice was 67.1 million pounds and made up the majority of the pack.

OTHER CANNED ITEMS. The pack of pet food was 544.3 million pounds valued at \$349.8 million—a decrease of 68.0 million pounds compared with 1998.

INDUSTRIAL FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS. The value of the domestic production of industrial fishery products was \$268.2 million—an increase of \$34.8 million compared with the 1998 value of \$233.4 million.

FISH MEAL. The domestic production of fish and shellfish meal was 686.2 million pounds valued at

Processed Fishery Products

\$147.0 million—an increase of 72.8 million pounds, and \$30.0 million compared with 1998. Fish meal production was 671.8 million pounds valued at \$146.1 million — an increase of 77.0 million pounds and \$30.3 million from the 1998 production. Shellfish meal production was 14.5 million pounds—a decrease of 4.2 million pounds from the 1998 level.

FISH OILS. The domestic production of fish oils was 286.2 million pounds valued at \$41.9 million—an

increase of 63.5 million pounds but a decrease of \$13.7 million in value compared with 1998 production.

OTHER INDUSTRIAL PRODUCTS. Oyster shell products, together with agar-agar, animal feeds, crab and clam shells processed for food serving, fish pellets, Irish moss extracts, kelp products, dry and liquid fertilizers, pearl essence, and mussel shell buttons were valued at \$79.3 million, compared with \$60.8 million in 1998—an increase of \$18.5 million.

VALUE OF PROCESSED FISHERY PRODUCTS, 1998 AND 1999 (Processed from domestic catch and imported products)

Item	1998 (1)		1999	
	Thousand dollars	Percent of total	Thousand dollars	Percent of total
Edible:				
Fresh and frozen	5,224,437	71	5,051,343	69
Canned	1,425,564	19	1,527,215	21
Cured	132,257	2	151,802	2
Total edible	6,782,258	92	6,730,360	92
Industrial:				
Bait and animal food (canned)	349,765	5	339,548	5
Meal and oil	172,574	2	188,854	3
Other	60,800	1	79,325	1
Total industrial	583,139	8	607,727	8
Grand total	7,365,397	100	7,338,087	100

(1) Revised. May not add due to rounding. Value is based on selling price at the plant.

U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1990-99

Year	Fish sticks			Fish portions			Breaded shrimp		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
1990	65,209	29,579	74,866	242,776	110,122	352,589	110,760	50,240	353,265
1991	63,286	28,706	77,877	204,697	92,850	313,400	116,335	52,769	335,880
1992	58,295	26,442	56,020	194,307	88,137	296,214	122,266	55,459	350,497
1993	67,959	30,826	67,975	206,165	93,516	313,195	111,489	50,571	316,722
1994	58,789	26,667	51,429	196,289	89,036	268,353	113,461	51,466	304,931
1995	74,066	33,596	73,478	251,217	113,951	356,518	100,522	45,596	299,355
1996	65,244	29,594	55,802	213,962	97,053	306,501	108,486	49,209	341,770
1997	69,167	31,374	64,298	195,554	88,703	285,348	117,471	53,284	334,939
1998	68,778	31,197	63,473	184,681	83,771	211,356	109,481	49,660	333,257
1999	65,019	29,492	63,396	203,279	92,207	269,125	119,149	54,046	351,891

Processed Fishery Products

PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 1998 AND 1999

Species	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Fillets:						
Amberjack	397	180	1,445	157	71	673
Anglerfish	5,185	2,352	14,416	2,642	1,198	8,764
Bluefish	151	68	335	136	62	354
Cod	66,644	30,230	161,047	61,401	27,851	108,646
Cusk	98	44	331	115	52	383
Dolphin	4,230	1,919	19,107	3,505	1,590	15,785
Drum	133	60	478	58	26	219
Flounders	23,558	10,686	69,548	23,765	10,780	68,334
Groupers	2,980	1,352	16,038	1,766	801	11,663
Haddock	5,721	2,595	22,028	4,818	2,185	20,455
Hake	15,436	7,002	9,187	4,977	2,258	6,991
Halibut	4,868	2,208	21,922	4,032	1,829	21,308
Lingcod	480	218	1,759	471	214	1,747
Marlins	367	166	890	612	278	1,726
Ocean perch:						
Atlantic	616	279	1,918	738	335	2,445
Pacific	1,781	808	3,559	1,456	660	3,088
Pollock:						
Atlantic	3,596	1,631	7,148	1,644	746	3,725
Alaska	161,399	73,210	189,745	143,821	65,237	168,507
Rockfishes	15,942	7,231	32,794	12,468	5,655	24,592
Sablefish	426	193	1,517	310	141	866
Salmon	28,202	12,792	85,758	28,477	12,917	81,040
Sea bass	658	298	3,766	586	266	4,145
Sea trout	222	101	856	215	98	872
Shark	1,823	827	5,120	1,085	492	2,486
Snapper	2,522	1,144	16,206	1,510	685	9,632
Swordfish	9,777	4,435	51,888	9,525	4,321	48,062
Tilapia	1,519	689	4,329	629	285	1,791
Tuna	11,621	5,271	75,762	11,992	5,440	79,932
Wahoo	257	117	1,332	269	122	1,354
Whitefish	980	445	2,549	921	418	2,486
Wolffish	86	39	239	82	37	202
Unclassified	19,474	8,833	63,662	19,066	8,648	61,695
Total	391,149	177,424	886,679	343,249	155,697	763,968
Steaks:						
Halibut	6,471	2,935	24,019	6,744	3,059	27,199
Salmon	1,197	543	2,828	1,244	564	3,062
Shark	27	12	78	56	25	168
Swordfish	4,058	1,841	16,468	3,192	1,448	13,233
Tuna	4,615	2,093	15,917	4,993	2,265	17,307
Unclassified	14,901	6,759	14,939	9,782	4,437	9,594
Total	31,269	14,184	74,249	26,011	11,799	70,563
Grand total	422,418	191,608	960,928	369,260	167,495	834,531

(1) Revised.

Note:--Some fillet products were further processed into frozen blocks.

Processed Fishery Products

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1998 AND 1999

Species	Pounds per case	1998			1999		
		Standard cases	Thousand pound	Thousand dollars	Standard cases	Thousand pound	Thousand dollars
For human consumption:							
Fish:							
Herring	23.4	158,291	3,704	6,612	158,846	3,717	6,709
Salmon:							
Chinook	44.25	362	16	103	2,644	117	290
Chum	44.25	212,271	9,393	8,711	171,322	7,581	6,079
Pink	44.25	2,672,136	118,242	153,008	3,904,068	172,755	195,269
Coho	44.25	36,000	1,593	3,288	42,305	1,872	3,834
Sockeye	44.25	667,887	29,554	108,420	1,171,299	51,830	187,600
Total salmon		3,588,655	158,798	273,530	5,291,638	234,155	393,072
Specialties	48	13,229	635	4,770	13,188	633	6,526
Sardines, Maine	23.4	506,068	11,842	19,488	513,547	12,017	20,107
Tuna: (2)							
Albacore:							
Solid	18	9,065,944	163,187	330,348	10,061,333	181,104	349,891
Chunk	18	1,867,000	33,606	60,604	1,784,389	32,119	61,731
Total albacore		10,932,944	196,793	390,952	11,845,722	213,223	411,622
Lightmeat:							
Solid	18	502,833	9,051	13,962	624,389	11,239	16,536
Chunk	18	26,389,778	475,016	578,108	24,700,944	444,617	517,623
Total lightmeat		26,892,611	484,067	592,070	25,325,333	455,856	534,159
Total tuna		37,825,556	680,860	983,022	37,171,056	669,079	945,781
Specialties	48	542	26	179	563	27	173
Other	48	305,813	14,679	17,302	322,833	15,496	18,269
Total fish	--	42,398,153	870,544	1,304,903	43,471,670	935,124	1,390,637
Shellfish:							
Clam and clam products: (3)							
Whole and minced	15	2,442,533	36,638	54,205	2,826,933	42,404	64,182
Chowder and juice	30	2,235,733	67,072	41,420	2,447,600	73,428	39,512
Specialties	48	201,250	9,660	9,275	168,167	8,072	6,820
Total clams	--	4,879,517	113,370	104,900	5,442,700	123,904	110,514
Crabs, natural	20	3,436	67	442	39,026	761	5,139
Lobster meat and specialties	48	9,188	441	525	9,729	467	525
Oyster, specialties	48	667	32	81	1,042	50	110
Shrimp, natural (4)	6.75	333,778	2,253	10,884	289,630	1,955	9,639
Other	48	41,375	1,986	3,829	302,313	14,511	10,651
Total shellfish	--	5,267,960	118,149	120,661	6,084,439	141,648	136,578
Total for human consumption	--	47,666,113	988,693	1,425,564	49,556,109	1,076,772	1,527,215
For bait and animal food	48	11,340,167	544,328	349,765	16,599,354	796,769	339,548
Grand total	--	59,006,279	1,533,021	1,775,329	66,155,463	1,873,541	1,866,763

(1) Revised.

(2) Flakes included with chunk.

(3) "Cut out" or "drained" weight of can contents are given for whole or minced clams, and net contents for other clam products.

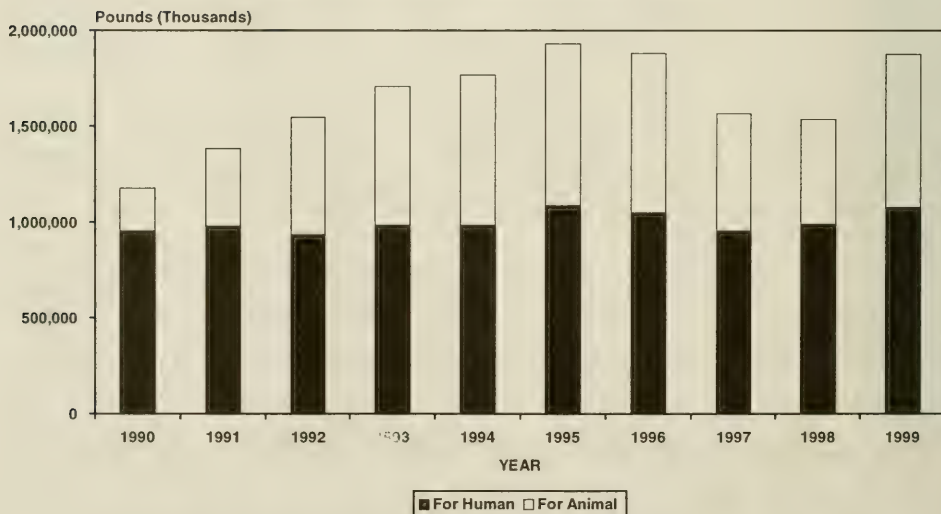
(4) Drained weight.

Processed Fishery Products

PRODUCTION OF CANNED FISHERY PRODUCTS, 1990-99

Year	For human consumption			For animal food and bait			Total		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
1990	956,962	434,075	1,414,846	221,320	100,390	146,947	1,178,282	534,465	1,561,793
1991	981,275	445,103	1,439,362	404,440	183,453	204,917	1,385,715	628,556	1,644,279
1992	936,117	424,620	1,330,173	607,678	275,641	247,261	1,543,795	700,261	1,577,434
1993	983,225	445,988	1,375,377	725,822	329,231	312,597	1,709,047	775,219	1,687,974
1994	985,675	447,099	1,470,234	782,272	354,836	325,264	1,767,947	801,935	1,795,498
1995	1,084,866	492,092	1,544,208	842,351	382,088	342,842	1,927,217	874,180	1,887,050
1996	1,052,909	477,596	1,428,937	824,094	373,807	370,945	1,877,003	851,403	1,799,882
1997	952,755	432,167	1,361,437	612,320	277,747	231,756	1,565,075	709,913	1,593,193
1998	988,693	448,468	1,425,564	544,328	246,906	349,765	1,533,021	695,374	1,775,329
1999	1,076,772	488,421	1,527,215	796,769	361,412	339,548	1,873,541	849,833	1,866,763

Production of Canned Fishery Products, 1990-99



Processed Fishery Products

PRODUCTION OF MEAL AND OIL, 1998 AND 1999

Product	1998			1999		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Dried scrap and meal:						
Fish	594,764	269,783	115,792	671,794	304,724	146,140
Shellfish	18,670	8,469	1,171	14,456	6,557	830
Total, scrap and meal	613,434	278,252	116,963	686,250	311,281	146,970
Body oil, total	222,697	101,015	55,611	286,182	129,811	41,884

Note:--To convert pounds of oil to gallons divide by 7.75.

The above data includes products in American Samoa and Puerto Rico.

PRODUCTION OF INDUSTRIAL PRODUCTS, 1990-99

Year	Scrap and meal		Marine animal oil		Meal, and oil	Other industrial products	Grand total
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	----- Thousand dollars -----		
1990	577,498	261,951	281,949	127,891	163,796	42,759	206,555
1991	612,716	277,926	267,345	121,267	170,495	37,707	208,202
1992	644,512	292,349	184,725	83,791	157,693	45,310	203,003
1993	750,744	340,535	293,452	133,109	182,170	43,689	225,859
1994	807,833	366,431	291,882	132,397	186,222	61,992	248,214
1995	667,240	302,658	241,941	109,744	172,279	74,264	246,543
1996	643,124	291,719	248,399	112,673	187,968	85,583	273,551
1997	724,668	328,707	283,379	128,540	229,222	118,128	347,350
1998	613,434	278,252	222,697	101,015	172,574	60,800	233,374
1999	686,250	311,281	286,182	129,811	188,854	79,325	268,179

Note:--Does not include the value of imported items that may be further processed.

U.S. Cold Storage Holdings

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1999 - Continued

Species	January	February	March	April	May	June
Fish	Thousand pounds					
Saltwater:						
Blocks and slabs:						
Cod	6,086	5,253	5,368	6,056	5,383	5,169
Flounder and sole	2,890	2,242	1,374	952	740	587
Haddock	709	762	1,015	750	433	398
Ocean perch	874	833	705	726	667	553
Pollock:						
Alaska (walleye)	26,368	18,417	18,535	24,214	25,264	27,691
Atlantic or other	8,541	4,490	3,596	12,492	14,584	16,929
Whiting:						
Silver (Atlantic) hake	661	1,043	1,009	1,368	760	1,534
Pacific hake	129	7	8	5	25	320
Mixed	13,948	5,704	3,585	5,905	4,474	3,769
Unclassified (1)	2,107	2,519	1,767	1,764	1,460	1,390
Total, blocks and slabs	62,313	41,270	36,962	54,232	53,790	58,340
Fillets and steaks:						
Cod	13,694	11,891	15,698	16,532	18,097	18,624
Flounder and sole	6,275	5,263	4,663	4,167	3,658	4,435
Haddock	2,592	3,133	1,562	2,161	2,948	2,018
Halibut	1,386	1,186	998	1,043	996	1,075
Ocean perch	4,045	3,993	3,800	4,170	3,635	3,788
Pollock:						
Alaska (walleye)	10,435	11,781	18,215	16,503	15,968	16,261
Atlantic or other	3,423	3,115	2,621	2,474	2,402	2,461
Rockfish	242	181	201	120	194	191
Salmon	2,253	2,184	2,455	2,275	2,305	2,063
Whiting:						
Silver (Atlantic) hake	3,053	3,004	3,757	3,195	3,166	3,625
Pacific hake	4,193	2,420	1,682	1,154	1,006	1,999
Unclassified	11,380	10,744	11,745	15,447	10,593	10,923
Total, fillets and steaks	62,971	58,895	67,397	69,241	64,968	67,463
Round, dressed, etc.:						
Halibut (exc. California)	4,159	3,170	2,682	2,846	3,374	4,162
Sablefish	382	211	104	332	404	613
Salmon:						
Chinook or king	1,545	1,188	885	638	534	599
Silver or coho	3,424	2,688	2,059	1,198	880	548
Chum or fall	29,076	23,392	16,951	12,965	8,621	5,436
Pink	7,260	6,089	3,719	2,665	2,036	1,608
Sockeye	687	556	391	313	235	382
Unclassified	2,553	2,439	2,560	2,410	2,528	2,091
Total, salmon	44,545	36,352	26,565	20,189	14,834	10,664
Whiting:						
Silver (Atlantic) hake	338	8	148	151	256	318
Pacific hake	17	1,483	464	853	298	888
Unclassified (exc. bait)	29,961	29,093	37,620	29,196	28,431	28,043
Total, round, dressed, etc.	79,402	70,317	67,583	53,567	47,597	44,688

See footnotes at end of table.

(Continued)

U.S. Cold Storage Holdings

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1999

Species	July	August	September	October	November	December
Fish	----- Thousand pounds -----					
Saltwater:						
Blocks and slabs:						
Cod	6,143	5,490	5,004	4,723	4,110	4,817
Flounder and sole	475	487	655	744	705	763
Haddock	356	339	466	401	329	248
Ocean perch	600	769	466	573	405	313
Pollock:						
Alaska (walleye)	24,422	22,439	22,156	21,331	15,473	12,264
Atlantic or other	16,795	13,162	9,695	9,558	9,757	12,390
Whiting:						
Silver (Atlantic) hake	710	611	282	387	321	226
Pacific hake	65	55	54	195	265	238
Minced	5,739	5,408	5,225	4,240	8,188	9,289
Unclassified (1)	2,431	2,003	2,596	2,308	2,601	2,696
Total, blocks and slabs	57,736	50,763	46,599	44,460	42,154	43,244
Fillets and steaks:						
Cod	19,646	19,118	17,982	18,161	17,556	18,673
Flounder and sole	4,788	5,002	4,543	4,655	4,702	3,956
Haddock	2,518	2038	1842	1677	1694	1917
Halibut	1,244	1119	1147	1031	1092	943
Ocean perch	3,032	1899	2546	2348	2163	2178
Pollock:						
Alaska (walleye)	13,830	14,183	16,534	20,670	24,016	21,462
Atlantic or other	2,304	1,958	1,945	2,270	1,949	3,060
Rockfish	182	330	388	447	748	785
Salmon	2,326	3,413	3,619	3,911	3,507	3,579
Whiting:						
Silver (Atl) hake	3,462	3,610	3,629	3,224	3,770	3,752
Pacific hake	4,235	6,973	7,661	6,426	5,882	6,130
Unclassified	9,840	10,849	11,342	9,782	9,811	10,217
Total, fillets and steaks	67,407	70,492	73,178	74,602	76,890	76,652
Round, dressed, etc.:						
Halibut (exc. California)	5,104	6,182	7,835	8,075	7,767	6,728
Sablefish	669	965	1,523	1,177	703	352
Salmon:						
Chinook or king	1,289	1,290	1,654	1,557	1,408	899
Silver or coho	1,503	3,414	4,793	4,783	3,703	2,727
Chum or fall	23,222	44,500	44,080	38,030	31,995	23,757
Pink	1,742	5,851	9,214	9,256	8,287	7,012
Sockeye	2,327	4,630	4,739	4,497	3,929	2,837
Unclassified	2,521	5,782	3,159	3,166	3,061	2,558
Total, salmon	32,604	65,467	67,639	61,289	52,383	39,790
Whiting:						
Silver (Atl) hake	346	291	187	117	122	217
Pacific hake	1,955	2,988	816	3,389	1,205	1,237
Unclassified (exc. bait)	28,169	26,093	26,334	23,927	26,933	30,219
Total, round, dressed, etc.	68,847	101,986	104,334	97,974	89,113	78,543

See footnotes at end of table.

(Continued)

U.S. Cold Storage Holdings

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1999 - Continued

Species	January	February	March	April	May	June
Fish	Thousand pounds					
Fish sticks and portions (2):	28,604	20,977	17,887	19,753	28,177	26,974
Analog products	4,595	4,672	5,106	5,770	5,781	4,759
Surimi: Pollock	19,092	18,535	16,111	16,271	12,459	15,478
Other	1,774	1,909	2,159	1,292	2,105	5,608
Total, saltwater	258,751	216,575	213,205	220,126	214,877	223,312
Freshwater						
Fillets and steaks:	166	164	195	212	220	185
Catfish	12,403	10,832	9,654	8,815	8,147	8,424
Rainbow trout	728	620	571	541	463	366
Unclassified (exc bait)	165	95	184	85	71	80
Total, freshwater	13,462	11,711	10,604	9,653	8,901	9,055
Bait & animal food	5,759	8,368	6,654	7,535	8,107	6,715
Shellfish						
Clams and clam meats	3,936	1,908	2,091	2,054	2,107	2,160
Crabs:						
Dungeness	6,948	952	879	852	706	892
King:						
Meat	175	163	159	346	134	96
Sections	8,080	7,300	6,159	6,175	5,867	5,042
Snow:						
Meat	1,120	1,291	1,280	976	1,135	1,418
Sections	3,929	4,669	12,754	18,582	19,437	17,741
Unclassified	3,132	3,228	2,702	5,086	4,984	5,025
Total, crab	23,384	17,603	23,933	32,017	32,263	30,214
Lobsters:						
Spiny (tails)	3,274	3,274	3,306	965	1,199	1,257
Unclassified (whole & meat)	1,172	1,082	1,143	1,626	1,449	1,471
Oyster meats	322	399	563	700	668	582
Scallop meats	4,515	4,443	4,334	4,622	4,853	4,626
Shrimp:						
Raw, headless	7,929	7,411	6,891	7,465	7,455	7,636
Breaded	4,191	3,828	3,336	1,424	1,697	1,839
Peeled	20,589	18,359	16,480	19,326	19,288	19,705
Unclassified	15,372	12,505	15,797	14,460	13,546	13,195
Total, shrimp	48,081	42,103	42,504	42,675	41,986	42,375
Squid	3,361	3,259	4,622	6,040	6,755	5,453
Unclassified shellfish	6,615	5,816	5,406	7,977	9,278	9,074
Total, shellfish	94,660	79,887	87,902	98,676	100,558	97,212
Total, fish and shellfish	372,632	316,541	318,365	335,990	332,443	336,294
Cured fish (all categories)	838	824	792	2,828	781	600
Grand total	373,470	317,365	319,157	338,818	333,224	336,894

See footnotes at end of table.

(Continued)

U.S. Cold Storage Holdings

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1999 - Continued

Species	July	August	September	October	November	December
Fish	----- Thousand pounds -----					
Fish sticks and portions (2):	21,363	21,536	22,546	25,138	24,740	21,919
Analog products	4,059	4,350	4,910	5,159	5,371	4,503
Surimi: Pollock	13,654	15,615	19,550	15,277	12,651	10,337
Other	4,727	4,703	3,723	3,300	2,785	2,759
Total, saltwater	237,793	269,445	274,840	265,910	253,704	237,956
Freshwater:						
Fillets and steaks	184	212	217	209	224	261
Catfish	8,148	8,132	9,150	10,535	11,535	13,175
Rainbow trout	324	274	288	205	303	548
Unclassified (exc bait)	130	96	177	545	327	234
Total, freshwater	8,786	8,714	9,832	11,494	12,389	14,218
Bait & animal food	7,233	7,322	6,221	8,239	8,641	8,711
Shellfish						
Clams and clam meats	2488	2670	3083	4223	3590	3325
Crabs:						
Dungeness	1,370	1,273	569	646	544	750
King:						
Meat	217	234	166	109	314	268
Sections	4,014	3,226	2,827	3,608	6,266	7,666
Snow:						
Meat	1,283	1,332	1,336	1,504	1,432	1,420
Sections	15,319	13,829	13,515	10,727	10,005	10,186
Unclassified	5,094	5,410	5,620	3,379	2,174	3,591
Total, crab	27,297	25,304	24,033	19,973	20,735	23,881
Lobsters:						
Spiny (tails)	1,238	1,235	1,280	1,248	1,229	1,322
Unclassified (whole & meat)	1,396	1,739	1,706	1,795	1,740	1,659
Oyster meats	530	430	377	379	228	226
Scallop meats	4,370	4,522	3,731	3,452	4,060	4,649
Shrimp:						
Raw, headless	7,100	8,084	6,575	7,035	9,024	9,149
Breaded	1,597	2,198	4,234	4,226	4,303	4,528
Peeled	21,108	23,973	24,253	25,260	26,409	26,325
Unclassified	12,319	11,552	11,778	12,331	12,585	14,248
Total, shrimp	42,124	45,807	46,840	48,852	52,321	54,250
Squid	5,036	4,699	4,534	4,484	10,355	24,181
Unclassified shellfish	8,342	8,491	9,064	10,185	12,418	12,758
Total, shellfish	92,821	94,897	94,648	94,591	106,676	126,251
Total, fish and shellfish	346,633	380,378	385,541	380,234	381,410	387,136
Cured fish (all categories)	935	944	1,590	1,495	1,213	1,093
Grand total	347,568	381,322	387,131	381,729	382,623	388,229

(1) Unclassified may also include blocks and slabs made from species listed separately.

(2) Fish sticks and portions include all species that are either cooked or uncooked.

NOTE:--Data includes imported fishery products. Data for these tables were collected from public and private warehouses where fishery products are normally stored for 30 days or more. Totals may not agree with annual report due to rounding.

IMPORTS

U.S. imports of edible fishery products in 1999 were valued at a record \$9.0 billion, \$840.7 million more than in 1998. The quantity of edible imports was 3.9 billion pounds, 240.9 million pounds more than the quantity imported in 1998.

Edible imports consisted of 3.2 billion pounds of fresh and frozen products valued at \$8.0 billion, 546.5 million pounds of canned products valued at \$681.6 million, 66.4 million pounds of cured products valued at \$145.2 million, 5.5 million pounds of caviar and roe products valued at \$44.2 million, and 42.0 million pounds of other products valued at \$100.0 million.

The quantity of shrimp imported in 1999 was 731.3 million pounds, 35.9 million pounds more than the quantity imported in 1998. Valued at \$3.1 billion, shrimp imports accounted for 35 percent of the value of total edible imports. Imports of fresh and frozen tuna were 491.0 million pounds, 80.0 million pounds less than the 571.0 million pounds imported in 1998. Imports of canned tuna were 334.5 million pounds, 94.1 million pounds more than in 1998. Imports of fresh and frozen fillets and steaks amounted to 654.3 million pounds, an increase of 75.7 million pounds from 1998. Regular and minced block imports were 214.4 million pounds, a decrease of 18.5 million pounds from 1998.

Imports of nonedible fishery products were valued at \$8.0 billion — an increase of \$566.2 million compared with 1998. The total value of edible and nonedible

products was \$17.0 billion in 1999, \$1.4 billion more than in 1998 when \$15.6 billion of fishery products were imported.

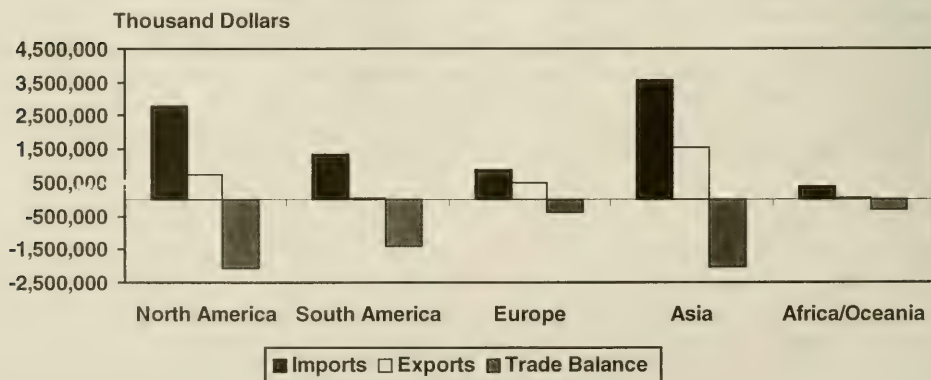
EXPORTS

U.S. exports of edible fishery products were 2.0 billion pounds valued at \$2.8 billion, an increase of 297.2 million pounds and \$588.8 million when compared with 1998. Fresh and frozen items were 1.6 billion pounds valued at \$2.2 billion, an increase of 211.4 million pounds, and \$416.3 million compared with 1998. In terms of individual items, fresh and frozen exports consisted principally of 210.5 million pounds of salmon valued at \$371.5 million, 273.9 million pounds of surimi valued at \$299.3 million and 57.3 million pounds of lobsters valued at \$262.7 million.

Canned items were 167.4 million pounds valued at \$256.1 million. Salmon was the major canned item exported, with 113.7 million pounds valued at \$197.7 million. Cured items were 26.6 million pounds valued at \$27.3 million. Caviar and roe exports were 91.9 million pounds valued at \$370.3 million.

Exports of nonedible products were valued at \$7.2 billion compared with \$6.4 billion in 1998. Exports of fish meal amounted to 192.5 million pounds valued at \$51.5 million. The total value of edible and nonedible exports was \$10.0 billion—an increase of \$1.3 billion compared with 1998.

U.S. Trade in Edible Fishery Products, 1999



FISHERY PRODUCTS IMPORTS, BY PRINCIPAL ITEMS, 1998 AND 1999

Item	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Edible fishery products:						
Fresh and frozen:						
Whole or eviscerated:						
Freshwater	83,131	37,708	70,283	95,933	43,515	86,846
Flatfish	38,364	17,402	70,119	45,300	20,548	95,331
Groundfish	58,922	26,727	53,054	62,776	28,475	62,231
Salmon	152,168	69,023	319,275	155,762	70,653	344,991
Tuna (1)	571,000	259,004	555,766	491,004	222,718	549,524
Other	261,507	118,619	323,940	255,941	116,094	351,498
Fillets and steaks:						
Freshwater	37,037	16,800	96,640	54,246	24,606	127,329
Flatfish	49,506	22,456	103,614	47,159	21,391	93,747
Groundfish	186,937	84,794	356,070	224,944	102,034	456,662
Other	305,081	138,384	636,439	327,952	148,758	760,499
Blocks and slabs	232,843	105,617	270,686	214,351	97,229	250,285
Surimi	7,749	3,515	5,330	21,574	9,786	16,383
Shrimp	692,017	313,897	3,101,790	728,336	330,371	3,130,821
Crabmeat	16,684	7,568	67,262	17,555	7,963	80,357
Lobster:						
American	42,542	19,297	245,578	52,525	23,825	333,743
Spiny	21,248	9,638	230,133	28,541	12,946	294,755
Scallops (meats)	52,445	23,789	218,250	44,079	19,994	192,647
Other fish and shellfish	310,004	140,617	631,687	359,511	163,073	815,241
Total, fresh and frozen	3,119,189	1,414,855	7,355,916	3,227,488	1,463,979	8,042,890
Canned:						
Anchovy	6,989	3,170	21,522	7,260	3,293	20,244
Herring	4,325	1,962	4,846	7,355	3,336	8,322
Mackerel	24,572	11,146	11,895	25,166	11,415	12,659
Salmon	1,323	600	4,990	2,229	1,011	6,287
Sardines	44,328	20,107	53,740	48,722	22,100	57,880
Tuna	240,409	109,049	288,970	334,537	151,745	335,830
Clams	11,186	5,074	10,559	11,942	5,417	10,627
Crabmeat	22,020	9,988	95,958	27,707	12,568	124,291
Lobsters	121	55	1,402	29	13	295
Oysters	13,600	6,169	25,629	12,928	5,864	26,818
Shrimp	3,406	1,545	10,622	2,945	1,336	7,626
Balls, cakes, and puddings	9,489	4,304	14,302	14,189	6,436	21,026
Other fish and shellfish	46,409	21,051	43,124	51,447	23,336	49,683
Total, canned	428,177	194,220	587,559	546,454	247,870	681,588
Cured:						
Dried	19,687	8,930	55,281	18,164	8,239	56,843
Pickled or salted	41,693	18,912	56,899	38,292	17,369	58,698
Smoked or kippered	10,836	4,915	28,381	9,985	4,529	29,675
Total, cured	72,216	32,757	140,561	66,440	30,137	145,216
Caviar and roe	4,358	1,977	33,215	5,474	2,483	44,221
Prepared meals	3,197	1,450	10,330	5,121	2,323	15,213
Other fish and shellfish	19,883	9,019	45,604	36,914	16,744	84,759
Total edible fishery products	3,647,021	1,654,278	8,173,185	3,887,891	1,763,536	9,013,887
Nonedible fishery products:						
Meal and scrap	125,404	56,883	33,574	73,069	33,144	16,634
Fish oils	24,213	10,983	19,604	25,677	11,647	15,174
Other	-	-	7,406,309	-	-	7,993,888
Total nonedible fishery products	-	-	7,459,487	-	-	8,025,696
Grand total	-	-	15,632,672	-	-	17,039,583

(1) Includes loins and discs.

Note:--Data include imports into the United States and Puerto Rico and landings of tuna by foreign vessels at American Samoa. Statistics on imports are the weight of individual products as exported, i.e., fillets, steaks, headed, etc. Imports and Exports of Fishery Products, Annual Summary, 1999, Current Fishery Statistics No. 9902 provides additional information.

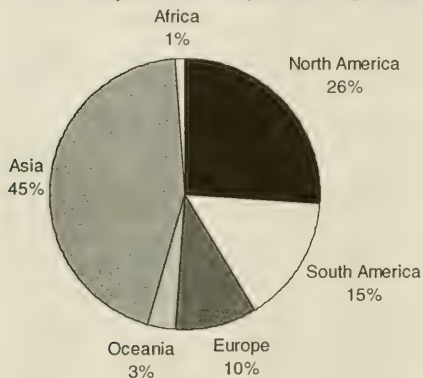
Source:—U.S. Department of Commerce, Bureau of the Census.

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1990-99

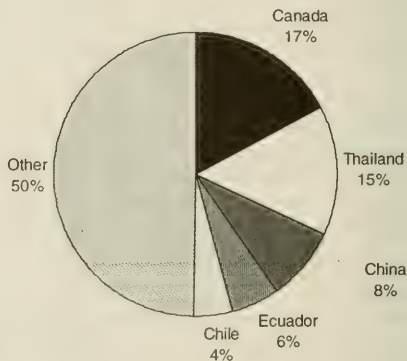
Year	Edible		Nonedible	Total	
	Thousand pounds	Metric tons	-----Thousand dollars-----		
1990	2,884,596	1,308,444	5,233,167	3,814,513	9,047,680
1991	3,014,819	1,367,513	5,671,887	3,763,173	9,435,060
1992	2,893,954	1,312,689	5,705,876	4,165,386	9,871,262
1993	2,917,160	1,323,215	5,848,738	4,773,649	10,622,387
1994	3,034,841	1,376,595	6,645,132	5,341,740	11,986,872
1995	3,066,458	1,390,936	6,791,690	5,659,933	12,451,623
1996	3,169,787	1,437,806	6,729,614	6,330,741	13,060,355
1997	3,338,849	1,514,492	7,754,243	6,774,083	14,528,326
1998	3,647,021	1,654,278	8,173,185	7,459,487	15,632,672
1999	3,887,891	1,763,536	9,013,887	8,025,696	17,039,583

Source:--U.S. Department of Commerce, Bureau of the Census.

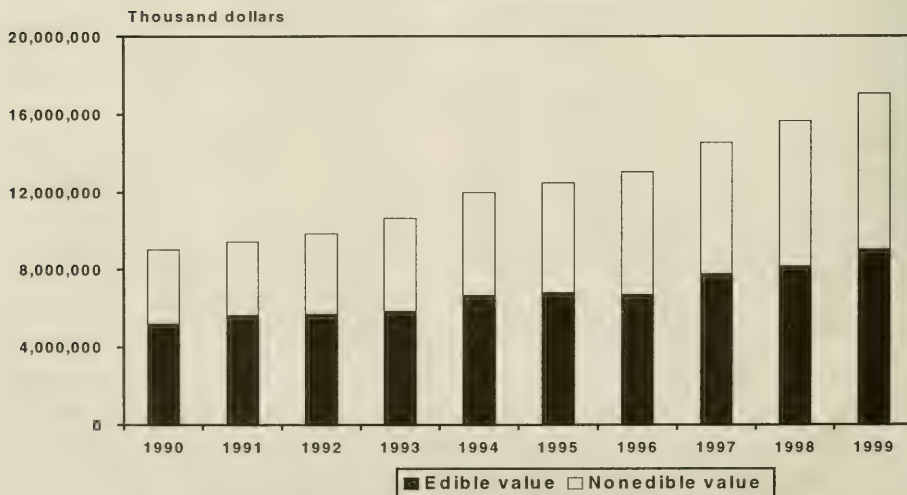
U.S. Imports from Major Areas by Volume



U.S. Imports from Major Exporters by Volume



U.S. Fishery Product Imports



EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1999

Continent and Country	Edible		Nonedible		Total
	Thousand pounds	Metric tons	Thousand dollars		
North America:					
Canada	671,279	304,490	1,712,409	874,485	2,586,894
Mexico	147,666	66,981	494,487	212,797	707,284
Dominican Republic	397	180	542	156,192	156,734
Honduras	29,471	13,368	114,067	88	114,155
Costa Rica	22,275	10,104	60,547	42,089	102,636
Other	140,210	63,599	424,381	48,455	472,836
Total	1,011,299	458,722	2,806,433	1,334,106	4,140,539
South America:					
Ecuador	221,393	100,423	555,761	7,514	563,275
Chile	168,465	76,415	371,334	20,462	391,796
Venezuela	37,344	16,939	119,832	4,630	124,462
Brazil	29,295	13,288	83,989	32,763	116,752
Argentina	73,334	33,264	90,220	14,492	104,712
Other	72,340	32,813	147,497	107,369	254,866
Total	602,169	273,142	1,368,633	187,230	1,555,863
Europe:					
European Union:					
Italy	1,063	482	3,039	1,516,262	1,519,301
France	3,609	1,637	9,099	665,523	674,622
Germany	2,066	937	3,351	291,488	294,839
United Kingdom	25,538	11,584	58,564	206,429	264,993
Spain	23,706	10,753	28,948	63,240	92,188
Other	22,487	10,200	56,641	176,038	232,679
Total	78,468	35,593	159,642	2,918,980	3,078,622
Other:					
Russian Federation	125,155	56,770	306,486	5,584	312,070
Iceland	91,171	41,355	238,362	7,576	245,938
Turkey	1,120	508	2,314	180,894	183,208
Norway	65,554	29,735	160,471	18,850	179,321
Switzerland	146	66	97	120,239	120,336
Other	12,266	5,564	32,379	39,534	71,913
Total	295,412	133,998	740,109	372,677	1,112,786
Asia:					
Thailand	565,328	256,431	1,558,925	494,598	2,053,523
China	327,211	148,422	440,465	341,717	782,182
India	83,777	38,001	199,033	519,470	718,503
Japan	80,415	36,476	174,662	435,648	610,310
Hong Kong	5,955	2,701	9,724	576,796	586,520
Other	664,006	301,191	1,190,682	689,368	1,880,050
Total	1,726,691	783,222	3,573,491	3,057,597	6,631,088
Oceania:					
New Zealand	79,178	35,915	155,302	7,911	163,213
Australia	12,703	5,762	80,497	61,086	141,583
French Polynesia	474	215	958	31,385	32,343
Fiji	12,491	5,666	11,624	2,322	13,946
Western Samoa	7,884	3,576	9,369	75	9,444
Other	14,270	6,473	13,303	2,001	15,304
Total	127,000	57,607	271,053	104,780	375,833
Africa:					
South Africa	22,895	10,385	44,028	22,817	66,845
Morocco	7,928	3,596	18,598	3,576	22,174
Namibia	7,661	3,475	17,715	247	17,962
Zimbabwe	-	-	-	12,174	12,174
Tanzania	5,734	2,601	7,545	4,530	12,075
Other	2,634	1,195	6,640	6,982	13,622
Total	46,852	21,252	94,526	50,326	144,852
Grand total	3,887,891	1,763,536	9,013,887	8,025,696	17,039,583

Source:—U.S. Department of Commerce, Bureau of the Census.

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY SPECIES AND TYPE, 1998 AND 1999

Species and type	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Regular blocks and slabs:						
Cod	30,538	13,852	63,265	26,696	12,109	49,413
Flatfish	7,328	3,324	12,662	5,646	2,561	9,195
Haddock	9,517	4,317	20,133	5,302	2,405	12,008
Ocean perch	520	236	990	353	160	625
Pollock	124,470	56,459	113,989	126,299	57,289	128,768
Whiting	18,960	8,600	18,328	13,441	6,097	12,058
Other	14,337	6,503	19,513	8,915	4,044	11,209
Total	205,669	93,291	248,880	186,652	84,665	223,276
Minced blocks and slabs	27,174	12,326	21,806	27,699	12,564	27,009
Grand total	232,843	105,617	270,686	214,351	97,229	250,285

Source:--U.S. Department of Commerce, Bureau of the Census.

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY COUNTRY OF ORIGIN, 1998 AND 1999

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Russian Federation	66,579	30,200	72,956	59,934	27,186	84,661
China	87,106	39,511	70,029	93,283	42,313	76,431
Canada	11,984	5,436	17,970	14,385	6,525	18,497
Iceland	9,259	4,200	18,251	7,745	3,513	13,171
Denmark	7,551	3,425	16,412	5,212	2,364	11,208
New Zealand	3,164	1,435	3,675	5,725	2,597	8,461
Argentina	14,544	6,597	14,247	8,602	3,902	8,246
Norway	8,777	3,981	18,358	3,155	1,431	6,124
St. Pierre & Miquelon	1,706	774	3,677	1,627	738	3,058
Other	22,174	10,058	35,111	14,683	6,660	20,428
Total	232,843	105,617	270,686	214,351	97,229	250,285

Source:--U.S. Department of Commerce, Bureau of the Census.

GROUND FISH FILLET AND STEAK IMPORTS, BY SPECIES, 1998 AND 1999 (1)

Species	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Cod	77,794	35,287	194,193	98,184	44,536	270,606
Haddock (2)	83,303	37,786	108,668	108,718	49,314	152,747
Ocean perch	25,840	11,721	53,209	18,042	8,184	33,309
Total	186,937	84,794	356,070	224,944	102,034	456,662

(1) Does not include data on fish blocks and slabs.

(2) Includes some quantities of cusk, hake, and pollock fillets.

Source:--U.S. Department of Commerce, Bureau of the Census.

CANNED TUNA NOT IN OIL, QUOTA AND IMPORTS, 1990-99

Year	Quota (1)		Over quota (2)		Total	
	Thousand pounds	Metric tons	Thousand pounds	Metric tons	Thousand pounds	Metric tons
1990	87,157	39,534	171,472	77,779	258,628	117,313
1991	75,093	34,062	237,237	107,610	312,330	141,672
1992	73,724	33,441	259,739	117,817	333,463	151,258
1993	72,681	32,968	144,287	65,448	216,968	98,416
1994	73,294	33,246	168,224	76,306	241,518	109,552
1995	73,367	33,279	126,176	57,233	199,543	90,512
1996	80,027	36,300	117,205	53,164	197,232	89,464
1997	78,620	35,662	139,714	63,374	218,335	99,036
1998	67,317	30,535	176,648	80,127	243,965	110,662
1999	72,086	32,698	249,016	112,953	321,102	145,651

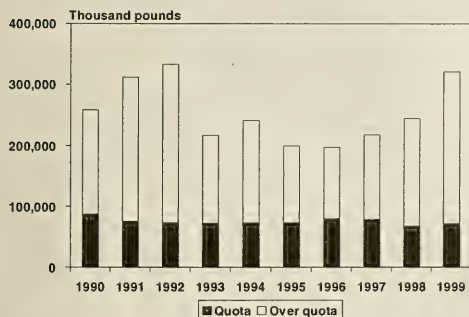
(1) Imports have been subject to tariff quotas since April 14, 1956, and are based on 20 percent of the previous year's domestic pack, excluding the pack in American Samoa. Dutiable in 1956 to 1967 at 12.5 percent ad valorem; 1968, 11 percent; 1969, 10 percent; 1970, 8.5 percent; 1971, 7 percent; and 1972 to 1999, 6 percent.

(2) Dutiable in 1972 to 1999, 12.5 percent.

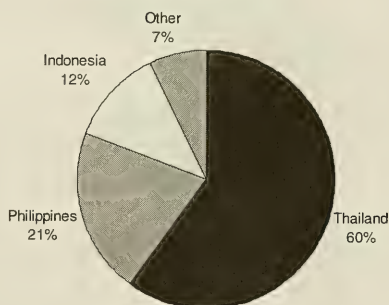
Note:—Data in this table will not agree with tuna import data released by the U.S. Department of Commerce, Bureau of the Census. Any tuna entered for consumption or withdrawn from a warehouse for consumption during the calendar year, except for receipts for possessions of the U.S., is subject to this quota.

Source:—U.S. Department of the Treasury, U.S. Customs Service.

Canned Tuna Quota and Imports



Imports of Canned Tuna by Major Exporter, 1999



CANNED TUNA, BY COUNTRY OF ORIGIN, 1998 AND 1999

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Thailand	114,302	51,847	150,367	190,334	86,335	201,956
Philippines	85,726	38,885	89,899	85,080	38,592	69,476
Indonesia	27,705	12,567	33,221	38,437	17,435	40,341
Ecuador	1,526	692	2,549	4,153	1,884	7,326
Papua New Guinea	3,472	1,575	3,525	7,522	3,412	6,358
Malaysia	2,396	1,087	3,844	2,950	1,338	4,477
Mexico	3,541	1,606	2,947	3,320	1,506	2,465
South Korea	243	110	246	459	208	703
China	73	33	67	785	356	688
Other	1,426	647	2,305	1,497	679	2,040
Total	240,409	109,049	288,970	334,537	151,745	335,830

Source:—U.S. Department of Commerce, Bureau of the Census.

SHRIMP IMPORTS, BY COUNTRY OF ORIGIN, 1998 AND 1999

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
North America:						
Mexico	78,120	35,435	382,517	77,262	35,046	386,104
Panama	22,465	10,190	91,552	17,101	7,757	68,929
Honduras	18,990	8,614	67,152	16,318	7,402	67,261
Canada	17,366	7,877	45,901	14,469	6,563	44,101
Nicaragua	8,373	3,798	31,298	9,550	4,332	37,184
El Salvador	8,838	4,009	30,906	6,014	2,728	24,984
Belize	3,056	1,386	11,119	4,941	2,241	22,804
Guatemala	5,223	2,369	18,807	4,004	1,816	16,052
Costa Rico	1,832	831	10,832	2,615	1,186	15,179
Greenland	1,082	491	2,773	553	251	1,368
Other	35	16	124	18	8	127
Total	165,380	75,016	692,981	152,845	69,330	684,093
South America:						
Ecuador	142,303	64,548	572,047	111,140	50,413	402,932
Venezuela	12,615	5,722	47,698	26,585	12,059	93,566
Guyana	12,414	5,631	29,717	12,568	5,701	28,102
Colombia	4,694	2,129	20,978	6,027	2,734	27,268
Peru	15,315	6,947	45,499	4,722	2,142	17,888
Brazil	1,812	822	7,382	4,215	1,912	14,889
Suriname	1,938	879	4,253	2,892	1,312	5,538
Chile	979	444	3,457	994	451	3,817
Argentina	66	30	200	101	46	637
Total	192,135	87,152	731,231	169,247	76,770	594,637
Europe:						
European Union:						
United Kingdom	79	36	238	134	61	423
Denmark	88	40	234	79	36	191
Germany	73	33	200	40	18	58
Spain	11	5	32	4	2	29
Netherlands	35	16	68	2	1	9
Other	143	13	151	141	2	8
Total	315	143	923	265	120	718
Other:						
Norway	831	377	2,394	139	63	455
Iceland	789	358	2,136	161	73	395
Estonia	-	-	-	44	20	146
Bulgaria	37	17	272	13	6	86
Other	194	88	395	-	-	-
Total	1,852	840	5,197	355	161	1,082
Asia:						
Thailand	203,407	92,265	1,088,062	252,433	114,503	1,196,972
Indonesia	33,697	15,285	188,739	35,335	16,028	167,327
India	44,425	20,151	150,847	48,109	21,822	160,758
Bangladesh	13,929	6,318	90,847	19,290	8,750	112,228
Viet Nam	11,087	5,029	75,909	17,815	8,081	109,065
China	15,423	6,996	35,936	19,502	8,846	49,272
Philippines	3,915	1,776	10,073	3,613	1,639	17,335
Pakistan	3,186	1,445	6,852	3,036	1,377	9,652
Sri Lanka	1,442	654	8,423	1,828	829	8,983
Malaysia	1,612	731	4,482	1,823	827	6,691
Other	3,424	1,553	11,203	5,545	2,515	18,641
Total	335,547	152,203	1,681,373	408,329	185,217	1,856,924
Oceania	82	37	375	152	69	706
Africa	112	51	332	88	40	287
Grand total	695,423	315,442	3,112,412	731,281	331,707	3,138,447

Note:—Statistics on imports are the weights of the individual products as received, i.e., raw headless, peeled, etc.

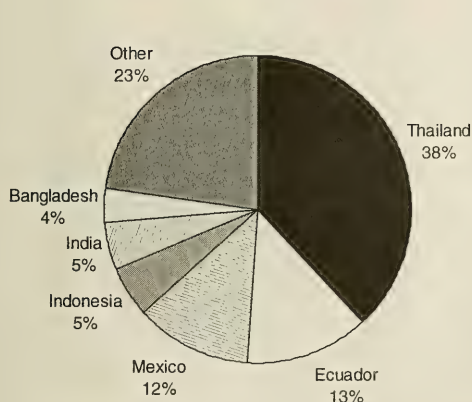
Source:—U.S. Department of Commerce, Bureau of the Census.

SHRIMP IMPORTS, BY TYPE OF PRODUCT, 1998 AND 1999

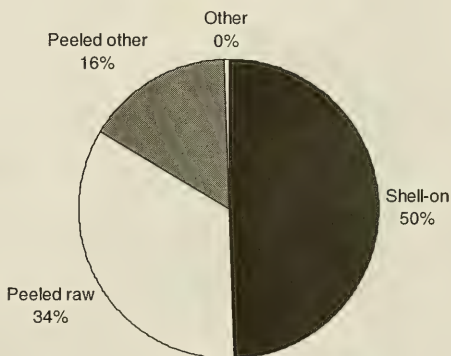
Type of product	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Shell-on (heads off)	341,894	155,082	1,607,185	344,901	156,446	1,554,481
Peeled:						
Canned	3,406	1,545	10,622	2,945	1,336	7,626
Not breaded:						
Raw	264,378	119,921	1,053,583	275,538	124,983	1,073,958
Other	85,128	38,614	438,206	105,609	47,904	495,089
Breaded	617	280	2,816	2,288	1,038	7,293
Total	695,423	315,442	3,112,412	731,281	331,707	3,138,447

Source:--U.S. Department of Commerce, Bureau of the Census.

Shrimp Imports by Major Exporter, 1999



Shrimp Imports by Type, 1999



FISH MEAL AND SCRAP IMPORTS, BY COUNTRY OF ORIGIN, 1998 AND 1999

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Iceland	34,908	15,834	9,594	24,722	11,214	6,527
Canada	16,144	7,323	5,742	15,657	7,102	4,026
Peru	10,430	4,731	2,628	24,619	11,167	3,613
Mexico	17,141	7,775	4,604	2,504	1,136	679
Japan	1,343	609	700	2,326	1,055	667
Denmark	785	356	300	1,387	629	362
China	238	108	200	187	85	219
Chile	13,971	6,337	4,218	886	402	179
South Korea	97	44	59	159	72	100
Other	30,349	13,766	5,529	622	282	262
Total	125,404	56,883	33,574	73,069	33,144	16,634

Source:--U.S. Department of Commerce, Bureau of the Census.

FISHERY PRODUCTS EXPORTS, BY PRINCIPAL ITEMS, 1998 AND 1999 (1)

Item	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Edible fishery products:						
Fresh and frozen:						
Whole or eviscerated:						
Freshwater	4,751	2,155	6,081	3,393	1,539	4,348
Flatfish	164,856	74,778	103,219	120,343	54,587	121,212
Groundfish	95,735	43,425	74,817	124,842	56,628	122,914
Herring	49,661	22,526	31,164	47,752	21,660	32,573
Sablefish	22,707	10,300	48,253	29,495	13,379	61,419
Salmon	153,436	69,598	255,102	210,542	95,501	371,478
Tuna	34,026	15,434	37,551	22,017	9,987	27,531
Other	281,732	127,793	211,791	344,590	156,305	219,222
Fillets, and steaks:						
Freshwater	520	236	1,123	545	247	1,132
Groundfish	63,481	28,795	63,478	37,474	16,998	45,614
Other	37,015	16,790	54,316	45,538	20,656	76,975
Blocks and slabs	44,848	20,343	45,820	59,705	27,082	63,236
Surimi	255,317	115,811	248,415	273,913	124,246	299,300
Fish sticks	25,734	11,673	30,354	22,414	10,167	27,285
Clams	1,649	748	2,825	1,911	867	2,655
Crabs	50,739	23,015	108,994	56,784	25,757	143,908
Crabmeat	3,278	1,487	5,568	3,840	1,742	7,817
Lobsters	42,972	19,492	187,762	57,264	25,975	262,721
Scallops (meats)	7,306	3,314	25,055	6,982	3,167	25,231
Sea urchins	4,220	1,914	10,063	4,398	1,995	11,539
Shrimp	32,432	14,711	121,397	32,864	14,907	122,760
Squid	35,591	16,144	28,923	114,368	51,877	61,066
Other fish and shellfish	30,291	11,585	56,688	31,387	12,698	63,131
Total, fresh and frozen	1,437,547	652,067	1,758,759	1,648,968	747,967	2,175,067
Canned:						
Salmon	77,450	35,131	143,288	113,726	51,586	197,680
Sardines	6,314	2,864	4,963	3,803	1,725	3,172
Tuna	9,319	4,227	15,437	7,945	3,604	12,084
Abalone	238	108	4,656	220	100	2,963
Crabmeat	558	253	1,374	1,329	603	3,279
Shrimp	1,660	753	8,732	2,355	1,068	9,025
Squid	132	60	155	4,270	1,937	2,397
Other fish and shellfish	23,475	10,648	24,304	33,755	15,311	25,529
Total, canned	119,145	54,044	202,909	167,404	75,934	256,129
Cured:						
Dried	2,434	1,104	6,215	2,055	932	4,347
Pickled or salted	12,624	5,726	15,323	23,845	10,816	20,627
Smoked or kippered	430	195	1,673	675	306	2,303
Total, cured	15,487	7,025	23,211	26,574	12,054	27,277
Caviar and roe:						
Herring	15,095	6,847	17,788	24,908	11,298	45,869
Pollock	26,746	12,132	84,714	24,780	11,240	109,451
Salmon	15,800	7,167	50,950	16,389	7,434	71,557
Sea urchin	4,656	2,112	73,589	4,938	2,240	79,286
Other	10,086	4,575	30,955	20,919	9,489	64,176
Total, caviar and roe	72,384	32,833	257,996	91,934	41,701	370,339
Prepared meals	3,508	1,591	4,238	4,310	1,955	7,218
Other fish and shellfish	15,818	7,175	12,614	21,931	9,948	12,518
Total edible products	1,663,889	754,735	2,259,727	1,961,122	889,559	2,848,548
Nonedible products:						
Meal and scrap	210,658	95,554	68,447	192,512	87,323	51,540
Fish oils	196,664	89,206	59,890	232,546	105,482	35,833
Other	-	-	6,368,938	-	-	7,106,762
Total nonedible products	-	-	6,437,385	-	-	7,158,302
Grand total	-	-	8,697,112	-	-	10,006,850

(1) Figures reflect both domestic and foreign (re-exports).

Source:—U.S. Department of Commerce, Bureau of the Census.

EDIBLE AND NONEDIBLE FISHERY PRODUCTS EXPORTS, 1990-99 (1)

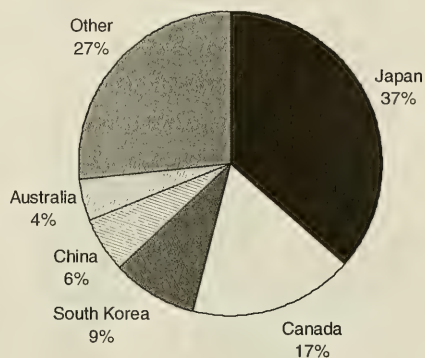
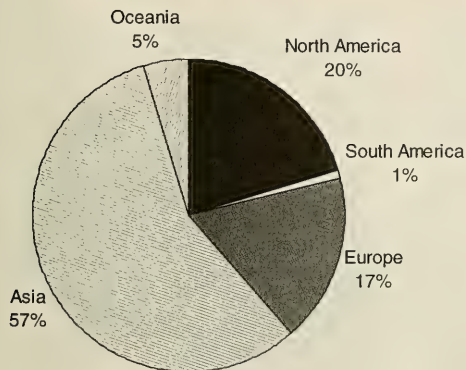
EDIBLE AND NONEDIBLE FISHERY PRODUCTS EXPORTS, 1990-99 (1)					
Year	Edible		Nonedible		Total
	Thousand pounds	Metric tons	-----Thousand dollars-----		
1990	1,947,292	883,286	2,881,262	3,084,677	5,965,939
1991	2,058,594	933,772	3,155,771	3,386,037	6,541,808
1992	2,087,606	946,932	3,465,667	3,653,965	7,119,632
1993	1,986,027	900,856	3,076,813	3,847,911	6,924,724
1994	1,978,507	897,445	3,126,120	4,254,741	7,380,861
1995	2,047,181	928,595	3,262,242	5,005,878	8,268,120
1996	2,112,055	958,022	3,032,282	5,621,169	8,653,451
1997	2,018,889	915,762	2,713,082	6,640,553	9,353,635
1998	1,663,889	754,735	2,259,727	6,437,385	8,697,112
1999	1,961,122	889,559	2,848,548	7,158,302	10,006,850

(1) Figures reflect both domestic and foreign (re-exports).

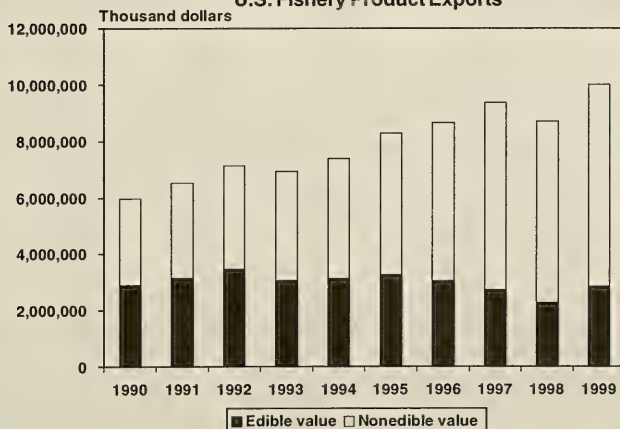
Source:—U.S. Department of Commerce, Bureau of the Census.

U.S. Exports to Major Areas by Volume

U.S. Exports to Major Importers by Volume, 1999



U.S. Fishery Product Exports



EDIBLE AND NONEDIBLE FISHERY PRODUCTS EXPORTS, 1999 (1)

Continent and Country	Edible		Nonedible		Total
	Thousand pounds	Metric tons	-----Thousand dollars-----		
North America:					
Canada	338,730	153,647	643,308	1,477,188	2,120,496
Mexico	29,784	13,510	47,951	716,717	764,668
Netherlands Antilles	926	420	1,440	121,949	123,389
Dominican Republic	5,170	2,345	5,558	82,781	88,339
Panama	2,881	1,307	5,256	53,325	58,581
Other	18,664	8,466	29,140	274,689	303,829
Total	396,156	179,695	732,653	2,726,649	3,459,302
South America:					
Brazil	3,794	1,721	4,187	169,522	173,709
Venezuela	6,098	2,766	2,745	67,078	69,823
Argentina	1,459	662	1,211	62,432	63,643
Colombia	1,323	600	1,357	47,939	49,296
Chile	549	249	586	43,813	44,399
Other	2,806	1,273	7,387	91,443	98,830
Total	16,030	7,271	17,473	482,227	499,700
Europe:					
European Union:					
United Kingdom	70,763	32,098	122,236	285,298	407,534
Netherlands	20,304	9,210	28,568	193,931	222,499
France	51,510	23,365	91,967	121,386	213,353
Germany	18,040	8,183	24,726	152,393	177,119
Belgium	6,975	3,164	14,595	141,457	156,052
Other	140,975	63,946	178,428	215,657	394,085
Total	308,569	139,966	460,520	1,110,122	1,570,642
Other:					
Switzerland	1,534	696	4,627	577,439	582,066
Norway	15,928	7,225	18,397	22,889	41,286
Russian Federation	7,035	3,191	9,557	5,503	15,060
Turkey	128	58	186	8,008	8,194
Estonia	675	306	510	7,508	8,018
Other	4,786	2,171	4,665	38,078	42,743
Total	30,086	13,647	37,942	659,425	697,367
Asia:					
Japan	716,036	324,792	1,170,341	726,383	1,896,724
Hong Kong	30,463	13,818	33,951	375,284	409,235
South Korea	182,078	82,590	176,878	146,266	323,144
China	111,456	50,556	92,079	72,409	164,488
Taiwan	23,016	10,440	42,014	120,522	162,536
Other	41,550	18,847	39,508	516,740	556,248
Total	1,104,599	501,043	1,554,771	1,957,604	3,512,375
Oceania:					
Australia	88,226	40,019	36,694	131,152	167,846
New Zealand	2,679	1,215	2,549	27,734	30,283
French Polynesia	1,265	574	1,227	1,360	2,587
Fiji	1,171	531	766	224	990
Fed.States of Micronesia	333	151	190	541	731
Other	1,082	491	403	1,135	1,538
Total	94,756	42,981	41,829	162,146	203,975
Africa:					
South Africa	1,175	533	884	35,360	36,244
Egypt	3,818	1,732	876	9,500	10,376
Nigeria	4,524	2,052	925	3,476	4,401
Ghana	1,345	610	599	1,046	1,645
Zimbabwe	-	-	-	1,550	1,550
Other	64	29	76	9,197	9,273
Total	10,926	4,956	3,360	60,129	63,489
Grand total	1,961,122	889,559	2,848,548	7,158,302	10,006,850

(1) Figures reflect both domestic and foreign (re-exports).

Source:—U.S. Department of Commerce, Bureau of the Census.

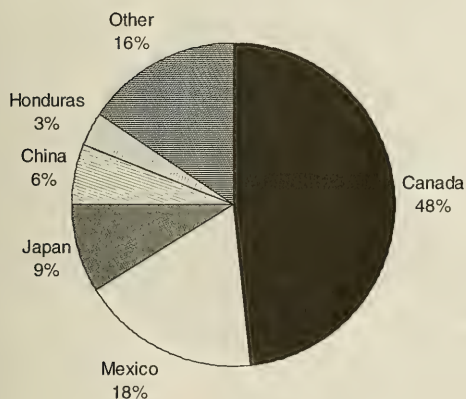
FRESH AND FROZEN SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1998 AND 1999 (1)

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Canada	15,858	7,193	64,085	15,176	6,884	59,458
Mexico	8,131	3,688	23,481	6,803	3,086	21,762
Japan	1,711	776	8,813	2,403	1,090	10,990
China	1,724	782	4,697	2,478	1,124	7,269
Honduras	791	359	2,906	1,204	546	4,250
Ecuador	130	59	660	694	315	3,111
Panama	33	15	176	489	222	2,251
Taiwan	106	48	311	494	224	1,547
Bermuda	163	74	1,063	194	88	1,103
Other	3,785	1,717	15,205	2,928	1,328	11,019
Total	32,432	14,711	121,397	32,864	14,907	122,760

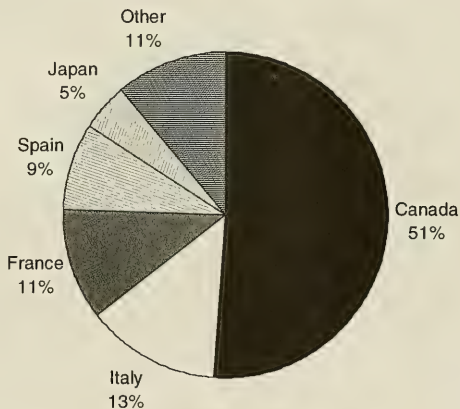
(1) Figures reflect both domestic and foreign (re-export).

Source:—U.S. Department of Commerce, Bureau of the Census.

U.S. Exports of Shrimp, 1999



U.S. Exports of Lobster, 1999



FRESH AND FROZEN LOBSTER EXPORTS, BY COUNTRY OF DESTINATION, 1998 AND 1999 (1)

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Canada	21,799	9,888	72,816	34,143	15,487	134,328
Italy	2,421	1,099	28,019	6,349	2,880	35,002
France	4,160	1,887	22,085	5,520	2,504	28,992
Spain	3,399	1,542	16,084	4,484	2,034	22,964
Japan	1,978	897	12,610	1,878	852	12,332
Taiwan	1,367	620	11,001	791	359	6,232
Germany	637	289	3,601	732	332	4,160
Belgium	390	177	2,131	476	216	2,756
United Kingdom	509	231	2,478	304	138	1,823
Other	3,395	1,540	16,937	2,586	1,173	14,132
Total	42,972	19,492	187,762	57,264	25,975	262,721

(1) Figures reflect both domestic and foreign (re-export).

Source:—U.S. Department of Commerce, Bureau of the Census.

FRESH AND FROZEN SALMON EXPORTS, WHOLE OR EVISCERATED, BY COUNTRY OF DESTINATION, 1998 AND 1999 (1)

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	66,918	30,354	148,041	106,021	48,091	232,579
Canada	43,550	19,754	56,196	56,025	25,413	75,880
France	9,303	4,220	10,171	10,007	4,539	13,950
China	5,481	2,486	9,735	5,443	2,469	8,374
Germany	10,300	4,672	9,226	6,598	2,993	6,464
Denmark	2,727	1,237	2,799	4,268	1,936	5,827
Belgium	1,821	826	2,318	2,449	1,111	3,365
Netherlands	1,069	485	1,786	2,114	959	2,985
Sweden	1,629	739	1,510	2,930	1,329	2,684
Other	10,637	4,825	13,320	14,685	6,661	19,370
Total	153,436	69,598	255,102	210,542	95,501	371,478

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

CANNED SALMON EXPORTS, BY COUNTRY OF DESTINATION, 1998 AND 1999 (1)

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
United Kingdom	31,804	14,426	66,885	54,414	24,682	97,544
Canada	27,401	12,429	43,001	29,817	13,525	54,255
Australia	7,917	3,591	15,380	10,179	4,617	16,824
Netherlands	5,236	2,375	8,689	6,122	2,777	9,632
France	1,691	767	2,899	3,435	1,558	6,388
Russian Federation	26	12	13	4,334	1,966	5,267
Belgium	677	307	1,043	935	424	1,406
South Korea	-	-	-	1,120	508	1,216
New Zealand	871	395	1,997	644	292	1,116
Other	1,828	829	3,381	2,727	1,237	4,032
Total	77,450	35,131	143,288	113,726	51,586	197,680

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

FROZEN SURIMI EXPORTS, BY COUNTRY OF DESTINATION, 1998 AND 1999 (1)

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	188,379	85,448	176,879	177,541	80,532	199,475
South Korea	42,236	19,158	48,470	72,112	32,710	77,212
France	5,234	2,374	4,644	6,762	3,067	5,356
Taiwan	6,177	2,802	5,141	6,191	2,808	5,001
Portugal	-	-	-	1,437	652	2,436
Canada	1,440	653	1,296	1,294	587	1,385
Norway	1,396	633	2,315	807	366	1,069
Netherlands	1,124	510	1,224	734	333	1,038
Russian Federation	562	255	639	1,323	600	984
Other	8,770	3,978	7,807	5,712	2,591	5,344
Total	255,317	115,811	248,415	273,913	124,246	299,300

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

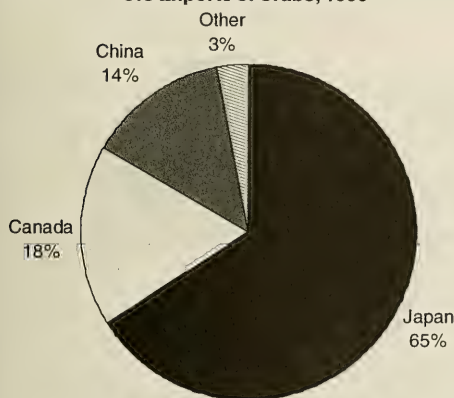
FRESH AND FROZEN CRAB EXPORTS, BY COUNTRY OF DESTINATION, 1998 AND 1999 (1)

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	33,552	15,219	76,928	32,946	14,944	94,574
Canada	12,681	5,752	23,522	14,733	6,683	25,192
China	2,557	1,160	4,812	7,604	3,449	19,649
United Kingdom	121	55	459	203	92	713
Viet Nam	9	4	80	157	71	449
Thailand	461	209	377	192	87	420
Taiwan	11	5	38	49	22	356
Belize	31	14	83	128	58	347
France	82	37	344	97	44	326
Other	1,235	560	2,351	677	307	1,882
Total	50,739	23,015	108,994	56,784	25,757	143,908

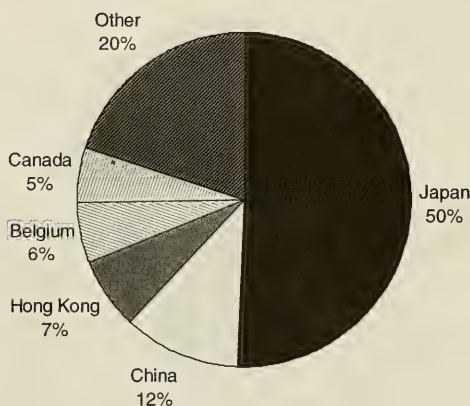
(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S Exports of Crabs, 1999



U.S Exports of Crabmeat, 1999



FRESH AND FROZEN CRABMEAT EXPORTS, BY COUNTRY OF DESTINATION, 1998 AND 1999 (1)

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	882	400	1,884	2,000	907	3,948
China	370	168	515	437	198	905
Hong Kong	42	19	209	157	71	527
Belgium	2	1	3	68	31	463
Canada	73	33	257	126	57	420
Thailand	399	181	371	384	174	395
Mexico	112	51	307	128	58	212
Indonesia	-	-	-	79	36	111
Singapore	-	-	-	40	18	109
Other	1,398	634	2,022	423	192	727
Total	3,278	1,487	5,568	3,840	1,742	7,817

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

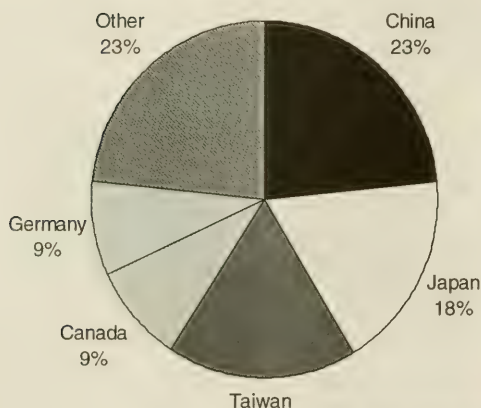
FISH MEAL EXPORTS, BY COUNTRY OF DESTINATION, 1998 AND 1999 (1)

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
China	29,156	13,225	7,968	59,339	26,916	11,972
Japan	27,793	12,607	8,851	22,661	10,279	9,371
Taiwan	42,355	19,212	12,234	26,224	11,895	9,094
Canada	35,280	16,003	8,678	20,917	9,488	4,643
Germany	12,542	5,689	3,154	30,867	14,001	4,498
Mexico	7,690	3,488	5,632	10,972	4,977	2,546
Hong Kong	4,081	1,851	1,315	4,273	1,938	1,338
South Korea	3,225	1,463	1,486	2,948	1,337	1,236
Lithuania	-	-	-	1,556	706	1,086
Other	48,536	22,016	19,129	12,756	5,786	5,756
Total	210,658	95,554	68,447	192,512	87,323	51,540

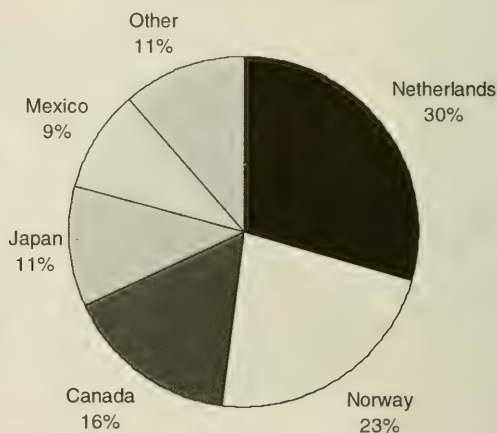
(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S Exports of Fish Meal, 1999



U.S Exports of Fish Oil, 1999



FISH AND MARINE ANIMAL OIL EXPORTS, BY COUNTRY OF DESTINATION, 1998 AND 1999 (1)

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Netherlands	63,819	28,948	18,463	87,964	39,900	10,536
Norway	28,774	13,052	7,809	71,482	32,424	8,127
Canada	49,720	22,555	15,867	22,729	10,310	5,694
Japan	35,950	16,307	11,104	13,378	6,068	3,995
Mexico	1,858	843	478	30,346	13,765	3,375
China	2,707	1,228	1,743	2,099	952	1,856
South Korea	161	73	93	2,310	1,048	731
Hong Kong	604	274	367	661	300	469
United Kingdom	639	290	583	304	138	301
Other	12,430	5,638	3,383	1,272	577	749
Total	196,664	89,206	59,890	232,546	105,482	35,833

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

Supply of Fishery Products

U.S. SUPPLY OF EDIBLE AND INDUSTRIAL FISHERY PRODUCTS, 1990-99 (Round weight)

Year	Domestic commercial landings (1)	Imports	Exports	Total
----- Million pounds-----				
1990	9,404	6,945	4,191	12,158
1991	9,484	6,879	4,719	11,644
1992	9,637	6,469	5,278	10,828
1993	10,467	9,867	5,578	14,756
1994	10,461	8,848	5,202	14,107
1995	9,788	6,696	5,252	11,232
1996	9,565	6,909	5,418	11,056
1997	9,842	7,290	5,537	11,595
1998	9,194	7,703	4,889	12,008
1999	9,339	8,039	5,207	12,171

(1) Preliminary.

Note: The weight of U.S. landings and imports represent the round(live) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc) which are shown in weight of meats excluding the shell.

U.S. SUPPLY OF EDIBLE FISHERY PRODUCTS, 1990-99 (Round weight)

Year	Domestic commercial landings (1)	Imports	Exports	Total
----- Million pounds-----				
1990	7,041	5,621	3,396	9,266
1991	7,031	5,989	3,564	9,456
1992	7,618	5,624	4,123	9,119
1993	8,214	5,607	4,386	9,435
1994	7,936	5,778	4,306	9,408
1995	7,667	5,917	4,261	9,323
1996	7,474	6,150	4,374	9,250
1997	7,244	6,495	4,326	9,413
1998	7,173	7,001	3,709	10,465
1999	6,832	7,630	4,129	10,333

(1) Preliminary.

U.S. SUPPLY OF INDUSTRIAL FISHERY PRODUCTS, 1990-99 (Round weight)

Year	Domestic commercial landings (1)	Imports	Exports	Total
----- Million pounds-----				
1990	2,363	1,324	795	2,892
1991	2,453	890	1,155	2,188
1992	2,019	845	1,448	1,416
1993	2,253	4,260	1,192	5,321
1994	2,525	3,070	896	4,699
1995	2,121	779	991	1,909
1996	2,091	759	1,044	1,806
1997	2,598	795	1,211	2,182
1998	2,021	702	1,180	1,543
1999	2,507	409	1,078	1,838

(1) Preliminary.

Supply of Fishery Products

U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1998 AND 1999

Item	Domestic commercial landings			Imports		Exports		Total	
	1998	1999		1998	1999	1998	1999	1998	1999
-----Thousand pounds--round weight-----									
Edible products:									
Finfish	5,935,025	5,490,493		4,901,349	5,340,994	3,374,636	3,670,657	7,461,738	7,160,830
Shellfish, et al	1,238,478	1,341,113		2,099,667	2,289,177	334,322	458,819	3,003,823	3,171,471
Total, edible	7,173,503	6,831,606		7,001,016	7,630,171	3,708,958	4,129,476	10,465,561	10,332,301
Industrial products: (1)									
Finfish	1,952,995	2,321,375		702,264	409,188	1,179,687	1,078,069	1,475,572	1,652,494
Shellfish, et al	67,472	186,053		(2)	(2)	(2)	(2)	67,472	186,053
Total, industrial	2,020,467	2,507,428		702,264	409,188	1,179,687	1,078,069	1,543,044	1,838,547
Total:									
Finfish	7,888,020	7,811,868		5,603,613	5,750,182	4,554,323	4,748,726	8,937,310	8,813,324
Shellfish, et al	1,305,950	1,527,166		2,099,667	2,289,177	334,322	458,819	3,071,295	3,357,524
Grand total	9,193,970	9,339,034		7,703,280	8,039,359	4,888,645	5,207,545	12,008,605	12,170,848

(1) Includes only quantity harvest for fish meal.

(2) Not available.

NOTE: Total landings shown in this table may not agree with landings reported in other tables due to rounding.

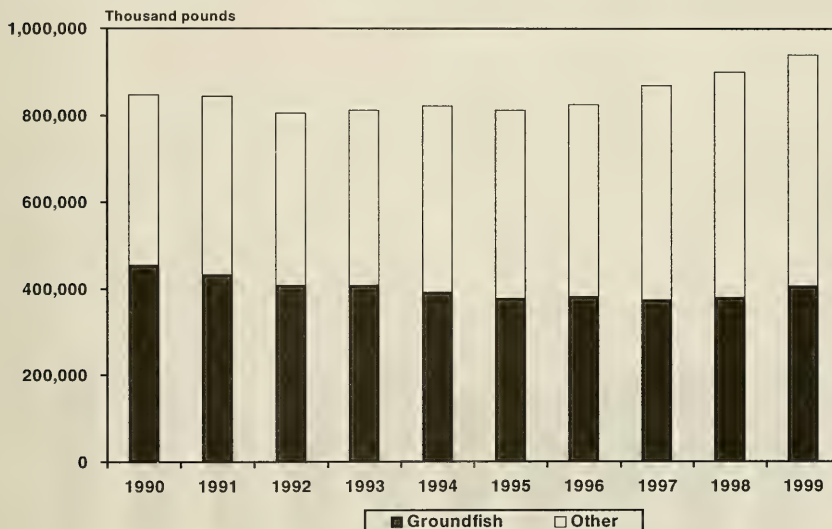
Supply of Fishery Products

U.S. SUPPLY OF ALL FILLETS AND STEAKS, 1990-99 (Edible weight)

Year	U.S. production (1)	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1990	440,692	458,413	899,105	51,599	847,506
1991	472,668	440,018	912,686	69,086	843,600
1992	448,664	408,059	856,723	52,247	804,476
1993	420,169	440,354	860,523	48,847	811,676
1994	425,022	439,059	864,081	43,252	820,829
1995	385,293	477,483	862,776	50,785	811,991
1996	423,309	476,469	899,778	74,368	825,410
1997	409,652	514,805	924,457	55,014	869,443
1998	422,418	578,561	1,000,979	101,016	899,963
1999	369,260	654,301	1,023,561	83,557	940,004

(1) Includes fillets used to produce blocks.

U.S. Supply of Fillets and Steaks



U.S. SUPPLY OF GROUNDFISH FILLETS AND STEAKS, 1990-99 (Edible weight)

Year	U.S. production (1)	Imports	Total	Exports (2)	Total supply
----- Thousand pounds -----					
1990	258,079	200,980	459,789	6,944	452,845
1991	264,323	202,409	466,732	34,442	432,290
1992	252,358	172,755	425,113	17,507	407,606
1993	233,755	186,516	420,271	12,242	408,029
1994	220,357	189,097	409,454	17,639	391,815
1995	216,699	184,845	401,544	24,606	376,938
1996	245,406	178,209	423,615	41,691	381,924
1997	220,403	176,125	396,528	23,367	373,161
1998	255,291	186,937	442,228	63,481	378,747
1999	218,970	224,944	443,914	37,474	406,440

(1) Includes fillets used to produce blocks. Species include cod, cusk, haddock, hake, pollock, and ocean perch.

(2) Species include: cod 1990-99; pollock 1991-99

Supply of Fishery Products

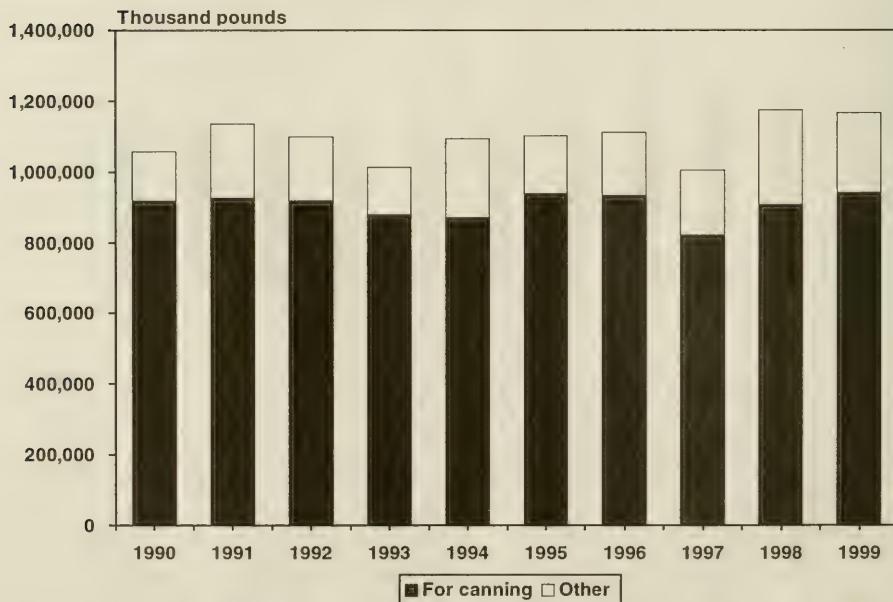
U.S. SUPPLY OF FRESH AND FROZEN TUNA, 1990-99
(Round weight)

Year	U.S. commercial landings (1)			Imports (2)			Exports total	Total supply
	For canning	Other	Total	For canning	Other	Total		
	----- Thousand pounds -----							
1990	391,954	119,955	511,909	526,496	37,826	564,322	19,773	1,056,458
1991	346,322	178,025	524,347	579,556	50,290	629,846	17,714	1,136,479
1992	435,924	137,933	573,857	482,677	63,524	546,201	20,011	1,100,047
1993	426,036	62,933	488,969	453,046	92,965	546,011	21,660	1,013,320
1994	401,732	157,695	559,427	469,514	92,352	561,866	28,512	1,092,781
1995	407,036	86,956	493,992	531,266	105,304	636,570	28,869	1,101,693
1996	364,652	91,612	456,264	567,266	119,247	686,513	31,382	1,111,395
1997	354,074	102,567	456,641	467,526	105,806	573,332	24,092	1,005,881
1998	318,144	161,305	479,449	590,568	137,852	728,420	34,026	1,173,843
1999	368,716	111,658	480,374	571,976	135,966	707,942	22,018	1,166,298

(1) Includes a quantity of fish landed at other ports by U.S.-flag vessels.

(2) Includes landings in American Samoa of foreign caught fish.

U.S. Supply of Fresh and Frozen Tuna



Supply of Fishery Products

U.S. SUPPLY OF CANNED SARDINES, 1990-99 (Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1990	13,240	56,963	70,203	9,048	61,155
1991	13,986	48,515	62,501	10,668	51,833
1992	17,437	36,511	53,948	12,690	41,258
1993	14,354	39,111	53,465	12,275	41,190
1994	15,560	43,942	59,502	11,010	48,492
1995	13,567	42,280	55,847	11,773	44,074
1996	17,672	40,926	58,598	12,207	46,391
1997	15,976	42,771	58,747	9,321	49,426
1998	11,842	44,328	56,170	6,314	49,856
1999	12,017	48,722	60,739	3,803	56,936

U.S. SUPPLY OF CANNED SALMON, 1990-99 (Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1990	196,383	1,378	197,761	49,546	148,215
1991	195,744	983	196,727	66,134	130,593
1992	149,453	974	150,427	77,895	72,532
1993	198,344	428	198,772	84,610	114,162
1994	206,841	1,093	207,934	90,915	117,019
1995	243,568	1,202	244,770	98,197	146,573
1996	197,163	2,266	199,429	95,530	103,899
1997	162,106	1,228	163,334	81,621	81,713
1998	158,798	1,323	160,121	77,450	82,671
1999	234,155	2,229	236,384	113,726	122,658

U.S. SUPPLY OF CANNED TUNA, 1990-99 (Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1990	580,601	284,593	865,194	9,039	856,155
1991	592,786	351,744	944,530	11,310	933,220
1992	608,981	323,413	932,394	10,141	922,253
1993	618,743	224,419	843,162	8,534	834,628
1994	609,514	249,043	858,557	8,391	850,166
1995	666,581	215,365	881,946	7,385	874,561
1996	675,816	193,037	868,853	9,866	858,987
1997	627,032	212,171	839,203	9,967	829,236
1998	680,860	240,409	921,269	9,319	911,950
1999	669,079	334,537	1,003,616	7,945	995,671

Supply of Fishery Products

U.S. SUPPLY OF KING CRAB, 1990-99

(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (1)	Total supply
----- Thousand pounds -----					
1990	33,917	4,925	38,842	(2) 19,486	19,356
1991	28,140	7,087	35,227	15,320	19,907
1992	19,056	11,958	31,014	16,241	14,773
1993	24,732	7,395	32,127	24,372	7,755
1994	11,960	15,035	26,995	15,013	11,982
1995	14,673	18,360	33,033	11,847	21,186
1996	21,000	26,533	47,533	17,650	29,883
1997	18,027	39,666	57,693	12,516	45,177
1998	24,122	51,655	75,777	13,575	62,202
1999	16,920	46,922	63,842	11,483	52,359

(1) Imports, exports, foreign exports converted to round (live) weight by using these conversion factors: frozen, 1.75; meat, 4.50; and canned, 5.33

(2) Estimated, based on available foreign import data.

U.S. SUPPLY OF SNOW (TANNER) CRABS, 1990-99

(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
----- Thousand pounds -----					
1990	213,395	10,772	224,167	(3) 187,069	37,098
1991	357,122	19,091	376,213	(3) 316,162	60,051
1992	350,039	18,882	368,921	281,214	87,707
1993	255,733	31,224	286,957	220,618	66,339
1994	159,574	27,446	187,020	147,006	40,014
1995	80,817	20,969	101,786	59,805	41,981
1996	67,867	28,336	96,203	50,509	45,694
1997	118,898	41,959	160,857	50,604	110,253
1998	251,831	60,166	311,997	58,366	253,631
1999	185,162	110,041	295,203	78,918	216,285

(1) Converted to round(live) weight by multiplying fresh and frozen by 1.50; meat, 4.50; and canned, 5.00.

(2) Domestic merchandise converted to round(live) weight by multiplying frozen weight by 2.13 (believed to be mostly sections); meat, 4.50; and canned, 5.33. Foreign exports converted using the same factors as imports.

(3) Estimated, based on available foreign import data.

U.S. SUPPLY OF CANNED CRABMEAT, 1990-99

(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1990	695	8,563	9,258	434	8,824
1991	77	11,385	11,462	525	10,937
1992	99	9,577	9,676	789	8,887
1993	70	9,817	9,887	668	9,219
1994	17	9,852	9,869	511	9,358
1995	65	12,441	12,506	276	12,230
1996	93	12,773	12,866	337	12,529
1997	83	15,871	15,954	608	15,346
1998	67	22,020	22,087	558	21,529
1999	761	27,707	28,468	1,329	27,139

Supply of Fishery Products

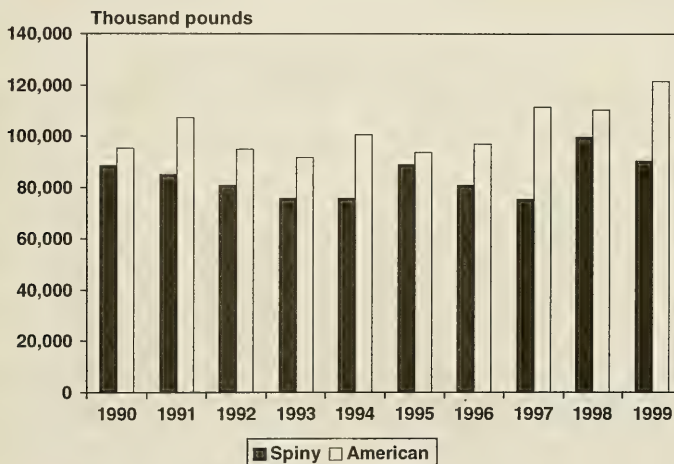
U.S. SUPPLY OF AMERICAN LOBSTERS, 1990-99 (Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
----- Thousand pounds -----					
1990	61,017	49,592	110,609	15,274	95,335
1991	63,337	65,381	128,718	21,485	107,233
1992	55,841	59,335	115,176	20,332	94,844
1993	56,513	55,570	112,083	20,354	91,729
1994	66,416	65,949	132,365	31,646	100,719
1995	66,406	62,923	129,329	35,587	93,742
1996	71,641	65,379	137,020	39,919	97,101
1997	83,921	73,033	156,954	45,262	111,692
1998	79,642	73,601	153,243	42,874	110,369
1999	87,469	90,830	178,299	56,755	121,544

(1) Only imports from Canada and St. Pierre and Miquelon are considered American lobsters and were converted to round weight by using these conversion factors: 1.00, whole; 4.50, meat, and 4.64, canned.

(2) Domestic exports conversion to live weight by 1.00, whole; 4.00, meat; and 4.50, canned. Foreign exports converted using import factors.

U.S. Supply of Lobster



U.S. SUPPLY OF SPINY LOBSTERS, 1990-99 (Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
----- Thousand pounds -----					
1990	7,120	88,426	95,546	5,948	88,598
1991	7,096	81,332	88,428	3,388	85,040
1992	4,872	77,848	82,720	2,001	80,719
1993	6,076	70,884	76,960	1,306	75,654
1994	8,104	68,787	76,891	1,304	75,587
1995	7,123	86,900	94,023	5,035	88,988
1996	8,308	75,595	83,903	3,033	80,870
1997	7,240	74,120	81,360	5,842	75,518
1998	5,935	95,801	101,736	1,802	99,934
1999	6,692	86,240	92,932	2,346	90,586

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 3.00, tails; 4.35, other; and 4.50 canned.

(2) Domestic exports converted to round (live) weight by using: 1.00, whole; 3.00, tails; 4.00, other; and 4.50, canned. Foreign exports converted using import factors.

Supply of Fishery Products

U.S. SUPPLY OF CLAMS, 1990-99 (Meat weight)

Year	U.S. commercial landings (1)	Imports (2)	Total	Exports	Total supply
----- Thousand pounds -----					
1990	139,198	15,830	155,028	2,961	152,067
1991	134,243	12,291	146,534	2,948	143,586
1992	142,449	14,262	156,711	1,662	155,049
1993	147,752	9,579	157,331	1,809	155,522
1994	131,427	15,507	146,934	2,617	144,317
1995	134,224	12,645	146,869	2,853	144,016
1996	123,239	14,340	137,579	3,448	134,131
1997	114,180	13,184	127,364	3,651	123,713
1998	107,959	15,666	123,625	4,318	119,307
1999	112,230	16,315	128,545	3,898	124,647

(1) For species breakout see table on page 1.

(2) Imports and exports were converted to meat weight by using these conversion factors: 0.40 in shell or shucked; 0.30, canned chowder and juice; and 0.93, other.

U.S. SUPPLY OF OYSTERS, 1990-99 (Meat weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports	Total supply
----- Thousand pounds -----					
1990	29,193	27,546	56,739	1,004	55,735
1991	31,859	30,547	62,406	739	61,667
1992	36,156	26,529	62,685	797	61,888
1993	33,575	28,244	61,819	1,131	60,688
1994	38,086	24,694	62,780	1,988	60,792
1995	40,380	24,200	64,580	1,908	62,672
1996	38,007	21,708	59,715	1,648	58,067
1997	39,652	20,533	60,185	2,191	57,994
1998	33,538	29,575	63,113	1,877	61,236
1999	26,983	30,012	56,995	2,047	54,948

(1) Imports and exports were converted to meat weight by using these conversion factors: 0.93, canned; 3.12, canned smoked; and 0.75, other.

U.S. SUPPLY OF SCALLOPS, 1990-99 (Meat weight)

Year	U.S. commercial landings (1)	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1990	41,591	39,839	81,430	7,099	74,331
1991	39,740	29,528	69,268	7,083	62,185
1992	33,884	38,682	72,566	3,589	68,977
1993	18,638	51,973	70,611	4,147	66,464
1994	25,469	56,676	82,145	5,990	76,155
1995	19,526	48,331	67,857	5,926	61,931
1996	18,197	58,686	76,883	6,191	70,692
1997	15,474	60,146	75,620	9,861	65,759
1998	13,166	52,445	65,611	7,306	58,305
1999	27,178	44,079	71,257	6,982	64,275

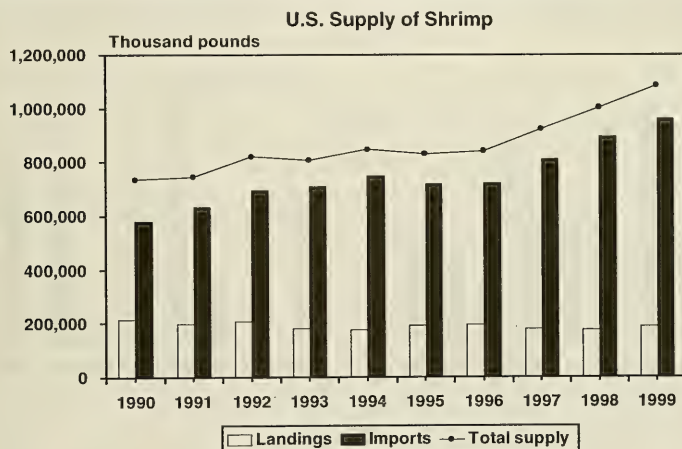
(1) For species breakout see table on page 1.

Supply of Fishery Products

U.S. SUPPLY OF ALL FORMS OF SHRIMP, 1990-99 (Heads-off weight)

Year	U.S. commercial landings (1)	Imports (2)	Total	Exports (3)	Total supply
----- Thousand pounds -----					
1990	213,899	579,427	793,326	59,683	733,643
1991	198,115	632,775	830,890	87,186	743,704
1992	207,086	694,254	901,340	81,604	819,736
1993	180,687	708,683	889,370	81,447	807,923
1994	174,969	749,993	924,962	77,755	847,207
1995	190,208	719,463	909,671	77,677	831,994
1996	195,902	720,852	916,754	75,130	841,624
1997	179,084	810,696	989,780	66,674	923,106
1998	173,304	893,578	1,066,882	65,302	1,001,580
1999	189,112	959,915	1,149,027	65,427	1,083,600

- (1) Commercial landings were converted to heads-off weight by using these conversion factors: South Atlantic and Gulf 0.629; and New England, Pacific and other, 0.57.
- (2) Imports were converted to heads-off weight by using these conversion factors: breaded, 0.63; shell-on, 1.00; peeled raw, 1.28; canned, 2.52; and other, 2.40.
- (3) Exports were converted to heads-off weight by using these conversion factors: domestic fresh and frozen, 1.18; canned, 2.02; other, 2.40; foreign--fresh and frozen, 1.00; canned, 2.52; and other, 2.40.



U.S. SUPPLY OF CANNED SHRIMP, 1990-99 (Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1990	710	9,155	10,445	2,670	7,775
1991	632	9,361	9,993	2,352	7,641
1992	640	9,273	9,913	1,931	7,982
1993	658	8,170	8,828	2,557	6,271
1994	463	6,314	6,777	1,841	4,936
1995	912	6,570	7,482	3,250	4,232
1996	819	3,563	4,382	2,665	1,717
1997	1,168	3,620	4,788	1,470	3,318
1998	2,253	3,406	5,659	1,660	3,999
1999	1,955	2,945	4,900	2,355	2,545

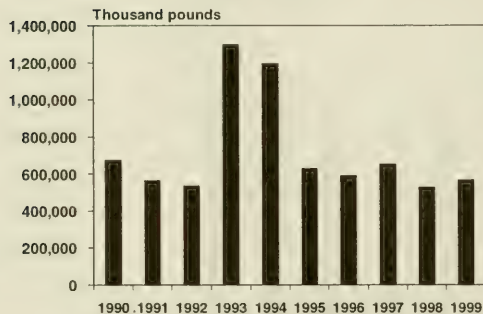
Supply of Fishery Products

U.S. SUPPLY OF FISH MEAL, 1990-99 (Product weight)

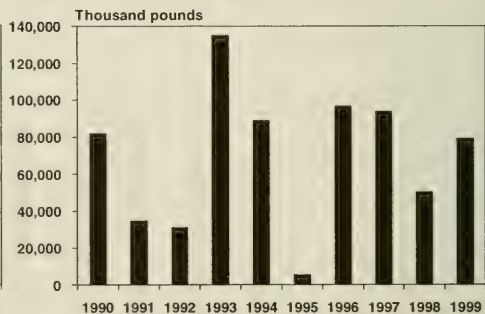
Year	U.S. production (1)	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1990	577,498	239,426	816,924	141,888	675,036
1991	612,716	158,916	771,632	206,320	565,312
1992	644,512	150,911	795,423	258,511	536,912
1993	750,744	760,664	1,511,408	212,859	1,298,549
1994	807,833	548,288	1,356,121	159,937	1,196,184
1995	667,240	139,101	806,341	176,981	629,360
1996	643,124	135,561	778,685	186,412	592,273
1997	724,668	142,049	866,717	216,289	650,428
1998	613,434	125,404	738,838	210,658	528,180
1999	686,250	73,069	759,319	192,512	566,807

(1) Includes shellfish meal.

U.S. Supply of Fish Meal



U.S. Supply of Fish Oils



U.S. SUPPLY OF FISH OILS, 1990-99 (Product weight)

Year	U.S. production	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1990	281,949	36,702	318,651	236,589	82,062
1991	267,345	21,828	289,173	254,525	34,648
1992	184,725	23,772	208,497	177,444	31,053
1993	293,452	26,052	319,504	184,488	135,016
1994	291,189	40,642	331,831	242,788	89,043
1995	241,941	23,913	265,854	260,394	5,460
1996	248,399	35,622	284,021	187,294	96,727
1997	283,379	25,622	309,001	215,255	93,746
1998	222,697	24,213	246,910	196,664	50,246
1999	286,182	25,677	311,859	232,546	79,313

Per Capita Consumption

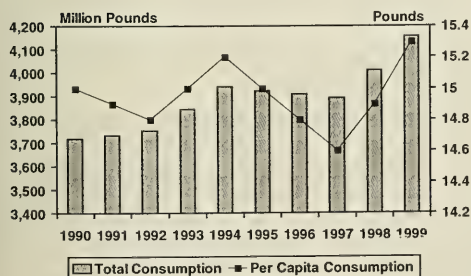
The NMFS calculation of per capita consumption is based on a “disappearance” model. The total U.S. supply of imports and landings is converted to edible weight, and decreases in supply such as exports and inventories are subtracted out. The remaining total is divided by a population value to estimate per capita consumption. Data for the model are derived primarily from secondary sources and are subject to incomplete reporting; changes in source data or invalid model assumptions may each have a significant effect on the resulting calculation.

U.S. per capita consumption of fish and shellfish was 15.3 pounds (edible meat) in 1999. This total was 0.4 pounds more than the 14.9 pounds consumed in 1998. Per capita consumption of fresh and frozen products was 10.4 pounds, 0.2 pound more than 1998.

Fresh and frozen finfish accounted for 5.9 pounds while fresh and frozen shellfish consumption was 4.5 pounds per capita. The fresh and frozen finfish includes approximately 1.1 pound of farm raised catfish.

Consumption of canned fishery products was 4.6 pounds per capita in 1999, 0.2 pounds more than in 1998. Cured fish accounted for 0.3 pound per capita, the same as in previous years. Imports of edible seafood made up 66 percent of the consumption.

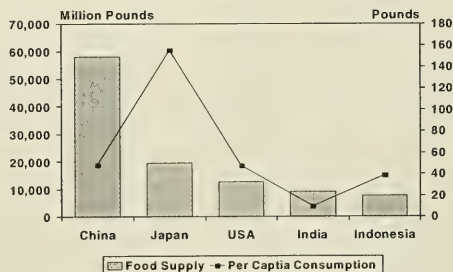
**U.S. Consumption 1990-1999
(Edible Meat Weight)**



PER CAPITA USE. Per capita use is based on the supply of fishery products, both edible and non-edible (industrial), on a round-weight equivalent basis without considering beginning or ending stocks, defense purchases, or exports. The per capita use of all edible and industrial fishery products in 1999 was 63.7 pounds, up 1.2 pounds compared with 1998.

WORLD CONSUMPTION. The FAO calculation for apparent consumption is also based on a disappearance model. The three year average considers, on a round weight equivalent basis, a country's landings, imports, and exports. The 1995-97 data indicates that the United States ranks as the third largest consumer of seafood in the world.

**Fish and Fishery Products
Apparent Consumption Average 1995-1997
(Live Weight Equivalent)**



Per Capita Consumption Total U.S. Consumption

Annual per capita consumption of seafood products represents the pounds of edible meat consumed from domestically-caught and imported fish and shellfish adjusted for beginning and ending inventories and exports, divided by the civilian population of the United States as of July 1 of each year.

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1910-1999

Year	Civilian resident population July 1 (1) <u>Million persons</u>	Per capita consumption			
		Fresh and frozen (2)	Canned (3)	Cured (4)	Total
		-----Pounds, edible meat-----			
1910	92.2	4.5	2.8	3.9	11.2
1920	106.5	6.3	3.2	2.3	11.8
1930	122.9	5.8	3.4	1.0	10.2
1940	132.1	5.7	4.6	0.7	11.0
1950	150.8	6.3	4.9	0.6	11.8
1960	178.1	5.7	4.0	0.6	10.3
1970	201.9	6.9	4.5	0.4	11.8
1980	225.6	7.9	4.3	0.3	12.5
1981	227.8	7.8	4.6	0.3	12.7
1982	230.0	7.9	4.3	0.3	12.5
1983	232.1	8.4	4.7	0.3	13.4
1984	234.1	9.0	4.9	0.3	14.2
1985	236.2	9.8	5.0	0.3	15.1
1986	238.4	9.8	5.4	0.3	15.5
1987	240.6	10.7	5.2	0.3	16.2
1988	242.8	10.0	4.9	0.3	15.2
1989	245.1	10.2	5.1	0.3	15.6
1990	247.8	9.6	5.1	0.3	15.0
1991	250.5	9.7	4.9	0.3	14.9
1992	253.5	9.9	4.6	0.3	14.8
1993	256.4	10.2	4.5	0.3	15.0
1994	259.2	10.4	4.5	0.3	15.2
1995	261.4	10.0	4.7	0.3	15.0
1996	264.0	10.0	4.5	0.3	14.8
1997	266.4	9.9	4.4	0.3	14.6
1998	269.1	10.2	4.4	0.3	14.9
1999	271.5	10.4	4.6	0.3	15.3

(1) Resident population for 1910 and 1920 and civilian resident population for 1930 to date.

(2) Fresh and frozen fish consumption for 1910 and 1920 is estimated. Beginning in 1973, data include consumption of artificially cultivated catfish.

(3) Canned fish consumption for 1920 is estimated. Beginning in 1921, it is based on production reports, packer stocks, and foreign trade statistics for individual years.

(4) Cured fish consumption for 1910 and 1920 is estimated.

*Record years: Fresh and Frozen--10.7 lb, 1987; Canned--5.8, 1936; Cured--4.0, 1909; and Total--16.2 lb, 1987.

Per Capita Consumption U.S. Consumption

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1980-99

Year	Salmon	Sardines	Tuna	Shellfish	Other	Total
----- Pounds -----						
1980	0.5	0.3	3.0	0.4	0.1	4.3
1981	0.5	0.4	3.0	0.4	0.3	4.6
1982	0.5	0.3	2.8	0.4	0.3	4.3
1983	0.5	0.2	3.2	0.4	0.4	4.7
1984	0.6	0.2	3.2	0.4	0.5	4.9
1985	0.5	0.3	3.3	0.5	0.4	5.0
1986	0.5	0.3	3.6	0.5	0.5	5.4
1987	0.4	0.3	3.5	0.5	0.5	5.2
1988	0.3	0.3	3.6	0.4	0.3	4.9
1989	0.3	0.3	3.9	0.4	0.2	5.1
1990	0.4	0.3	3.7	0.3	0.4	5.1
1991	0.5	0.2	3.6	0.4	0.2	4.9
1992	0.5	0.2	3.5	0.3	0.1	4.6
1993	0.4	0.2	3.5	0.3	0.1	4.5
1994	0.4	0.2	3.3	0.3	0.3	4.5
1995	0.5	0.2	3.4	0.3	0.3	4.7
1996	0.5	0.2	3.2	0.3	0.3	4.5
1997	0.4	0.2	3.1	0.3	0.4	4.4
1998	0.3	0.2	3.4	0.3	0.2	4.4
1999	0.3	0.2	3.4	0.4	0.3	4.6

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1980-99

Year	Filletts and steaks (1)	Sticks and portions	Shrimp all preparation
----- Pounds (2) -----			
1980	2.4	2.0	1.4
1981	2.4	1.8	1.5
1982	2.5	1.7	1.5
1983	2.7	1.8	1.7
1984	3.0	1.8	1.9
1985	3.2	1.8	2.0
1986	3.4	1.8	2.2
1987	* 3.6	1.7	2.4
1988	3.2	1.5	2.4
1989	3.1	1.5	2.3
1990	3.1	1.5	2.2
1991	3.0	1.2	2.4
1992	2.9	0.9	2.5
1993	2.9	1.0	2.5
1994	3.1	0.9	2.6
1995	2.9	1.2	2.5
1996	3.0	1.0	2.5
1997	3.0	1.0	2.7
1998	3.2	0.9	2.8
1999	3.2	1.0	* 3.0

(1) Data include groundfish and other species. Data do not include blocks, but filletts could be made into blocks from which sticks and portions could be produced.

(2) Product weight of filletts and steaks, sticks and portions; edible (meat) weight of shrimp.

*Record

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1995-97 AVERAGE

Region and Country	Estimated live weight equivalent		Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds		Kilograms	Pounds
North America:			Europe - Continued:		
Canada	22.2	48.9	Bosnia-Herzegovina	1.2	2.6
Greenland	84.1	185.4	Bulgaria	2.0	4.4
St. Pierre and Miquelon	68.6	151.2	Croatia	3.6	7.9
United States	20.9	46.1	Czech Republic	8.6	19.0
			Denmark	23.6	52.0
			Estonia	20.4	45.0
			Faeroe Island	86.1	189.8
			Finland	32.8	72.3
			France	28.4	62.6
			Georgia	1.6	3.5
			Germany	12.4	27.3
			Greece	25.4	56.0
			Hungary	4.0	8.8
			Iceland	91.1	200.8
			Ireland	16.8	37.0
			Italy	22.0	48.5
			Kazakhstan	2.6	5.7
			Kyrgyzstan	0.4	0.9
			Latvia	21.8	48.1
			Lithuania	16.9	37.3
			Macedonia	4.3	9.5
			Malta	27.4	60.4
			Moldova	1.3	2.9
			Netherlands	15.4	34.0
			Norway	50.1	110.5
			Poland	10.5	23.1
			Portugal	59.8	131.8
			Romania	2.3	5.1
			Russian Federation	19.5	43.0
			Slovakia	7.1	15.7
			Slovenia	6.9	15.2
			Spain	40.5	89.3
			Sweden	26.1	57.5
			Switzerland	13.8	30.4
			Tajikistan	0.1	0.2
			Turkmenistan	2.2	4.9
			Ukraine	6.8	15.0
			United Kingdom	20.1	44.3
			Uzbekistan	0.5	1.1
			Yugoslavia	2.1	4.6
			Near East:		
			Afghanistan	0.1	0.2
			Bahrain	16.2	35.7
			Cyprus	21.0	46.3
			Egypt	9.3	20.5
			Iran	5.0	11.0
			Iraq	1.6	3.5
			Israel	22.6	49.8
			Jordan	4.3	9.5
			Kuwait	12.5	27.6
			Lebanon	6.0	13.2
			Libya	6.5	14.3
			Oman	24.0	52.9
			Qatar	12.3	27.1
			Saudi Arabia	6.5	14.3
			Sudan	1.7	3.7
			Syria	1.0	2.2
			Turkey	8.3	18.3
			United Arab Emirates	27.4	60.4
			Yemen Republic	7.0	15.4
Caribbean:					
Antigua	23.9	52.7			
Aruba	7.6	16.8			
Bahamas	22.0	48.5			
Barbados	30.4	67.0			
Bermuda	37.9	83.6			
Cayman Islands	13.3	29.3			
Cuba	12.4	27.3			
Dominica	29.6	65.3			
Dominican Republic	8.1	17.9			
Grenada	23.8	52.5			
Guadeloupe	40.5	89.3			
Haiti	2.6	5.7			
Jamaica	15.4	34.0			
Martinique	37.6	82.9			
Netherlands Antilles	18.8	41.4			
Saint Lucia	22.0	48.5			
St. Vincent	15.3	33.7			
Trinidad-Tobago	12.2	26.9			
Turks & Caicos	40.2	88.6			
Latin America:					
Argentina	11.1	24.5			
Belize	6.7	14.8			
Bolivia	1.4	3.1			
Brazil	6.9	15.2			
Chile	22.3	49.2			
Colombia	4.5	9.9			
Costa Rica	5.2	11.5			
Ecuador	7.2	15.9			
El Salvador	2.5	5.5			
French Guiana	32.5	71.6			
Guatemala	1.1	2.4			
Guyana	55.3	121.9			
Honduras	3.0	6.6			
Mexico	10.5	23.1			
Nicaragua	1.3	2.9			
Panama	14.6	32.2			
Paraguay	5.1	11.2			
Peru	25.4	56.0			
Suriname	24.4	53.8			
Uruguay	7.1	15.7			
Venezuela	20.1	44.3			
Europe:					
Albania	1.3	2.9			
Armenia	1.2	2.6			
Austria	10.6	23.4			
Azerbaijan	1.2	2.6			
Belarus	1.0	2.2			
Belgium and Luxembourg	19.6	43.2			

See note at end of table.

(Continued on next page)

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1995-97 AVERAGE

Region and Country	Estimated live weight equivalent		Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds		Kilograms	Pounds
Far East:			Africa - Continued:		
Bangladesh	10.1	22.3	Liberia	5.0	11.0
Brunei	28.6	63.1	Madagascar	6.4	14.1
Burma	16.9	37.3	Malawi	5.9	13.0
Cambodia	9.1	20.1	Mali	11.3	24.9
China	24.1	53.1	Mauritania	10.1	22.3
Hong Kong	56.6	124.8	Mauritius	21.8	48.1
India	4.6	10.1	Morocco	7.4	16.3
Indonesia	17.9	39.5	Mozambique	2.0	4.4
Japan	69.0	152.1	Namibia	12.1	26.7
Laos	8.9	19.6	Niger	0.7	1.5
Macao	35.7	78.7	Nigeria	6.3	13.9
Maldives	169.8	374.3	Reunion	19.3	42.5
Malaysia	55.7	60.6	Rwanda	0.6	1.3
Mongolia	0.1	0.2	Sao Tome	22.4	49.4
Nepal	1.0	2.2	Senegal	32.5	71.6
North Korea	16.9	37.3	Seychelles	64.9	143.1
Pakistan	2.0	4.4	Sierra Leone	12.4	27.3
Philippines	31.0	68.3	Somalia	1.4	3.1
Singapore	32.4	71.4	South Africa	7.7	17.0
South Korea	51.2	112.9	St. Helena	68.1	150.1
Sri Lanka	18.8	41.4	Swaziland	0.2	0.4
Taiwan	37.3	82.2	Tanzania	10.7	23.6
Thailand	32.4	71.4	Togo	15.7	34.6
Vietnam	16.9	37.3	Tunisia	9.3	20.5
			Uganda	9.5	20.9
			Zambia	8.4	18.5
			Zimbabwe	3.5	7.7
Africa:			Oceania:		
Algeria	3.7	8.2	Australia	19.1	42.1
Angola	7.5	16.5	Cook Island	54.1	119.3
Benin	9.2	20.3	Fiji	32.7	72.1
Botswana	5.0	11.0	French Polynesia	63.4	139.8
Burkina	1.2	2.6	Kiribati	74.2	163.6
Burundi	2.5	5.5	Marshall Islands	6.6	14.6
Cameroon	9.8	21.6	Micronesia	40.8	89.9
Cape Verde	24.9	54.9	Nauru	37.9	83.6
Central African Rep	4.0	8.8	New Caledonia	22.1	48.7
Chad	6.8	15.0	New Zealand	22.4	49.4
Comoros	21.7	47.8	Niue	56.3	124.1
Congo (Brazzaville)	25.9	57.1	Palau	102.4	225.8
Congo (Kinshasa)	5.9	13.0	Papua New Guinea	14.8	32.6
Djibouti	2.0	4.4	Solomon Islands	40.6	89.5
Equatorial Guinea	20.1	44.3	Tokelau	152.5	336.2
Eritrea	0.8	1.8	Tonga	33.4	73.6
Ethiopia	0.1	0.2	Tuvalu	20.0	44.1
Gabon	47.5	104.7	Vanuatu	26.1	57.5
Gambia	22.4	49.4	Wallis and Futuna Islands	12.5	27.6
Ghana	21.8	48.1	Western Samoa	55.5	122.4
Guinea	14.1	31.1			
Guinea-Bissau	3.3	7.3			
Ivory Coast	11.6	25.6			
Kenya	5.3	11.7			
Lesotho	0.0	0.0			
			World	15.7	34.6

Note:--Data for most countries are tentative. Aquatic plants are included where applicable.

Source:--Food and Agriculture Organization of the United Nations (FAO)

Per capita use of commercial fish and shellfish is based on the supply of fishery products, both edible and nonedible (industrial), on a round weight equivalent basis, without considering the beginning or ending stocks, defense purchases, or exported.

Per capita use figures are not comparable with per capita consumption data. Per capita consumption figures represent edible (for human use) meat weight consumption rather than round weight consumption. In addition, per capita consumption includes allowances for beginning and ending stocks and exports, whereas the use does not include such allowances.

Per capita use is derived by using total population including U.S. Armed Forces overseas. The per capita consumption is derived by using civilian resident population.

U.S. ANNUAL PER CAPITA USE OF COMMERCIAL FISH AND SHELLFISH, 1960-99 (1)

Year	Total population including armed forces overseas July 1	U.S. supply	Per capita utilization		
			Commercial landings	Imports	Total
	<u>Million persons</u>	<u>Million pounds</u>	----- Pounds -----		
1960	180.7	8,223	27.3	18.2	45.5
1961	183.7	9,570	28.2	23.9	52.1
1962	186.5	10,408	28.7	27.1	55.8
1963	189.2	11,434	25.6	34.8	60.4
1964	191.9	12,031	23.7	39.0	62.7
1965	194.3	10,535	24.6	29.6	54.2
1966	196.6	12,469	22.2	41.2	63.4
1967	198.7	13,991	20.4	50.0	70.4
1968	200.7	17,381	20.7	65.9	86.6
1969	202.7	11,847	21.4	37.0	58.4
1970	205.1	11,474	24.0	31.9	55.9
1971	207.7	11,804	24.1	32.7	56.8
1972	209.9	13,849	22.9	43.1	66.0
1973	211.9	10,378	22.9	26.1	49.0
1974	213.9	9,875	23.2	23.0	46.2
1975	216.0	10,164	22.6	24.5	47.1
1976	218.0	11,593	24.7	28.5	53.2
1977	220.2	10,652	23.9	24.4	48.3
1978	222.6	11,509	27.1	24.6	51.7
1979	225.1	11,831	27.9	24.7	52.6
1980	227.7	11,357	28.5	21.4	49.9
1981	230.0	11,353	26.0	23.4	49.4
1982	232.2	12,011	27.4	24.3	51.7
1983	234.3	12,352	27.5	25.2	52.7
1984	236.3	12,552	27.3	25.8	53.1
1985	238.5	15,150	26.2	37.3	63.5
1986	240.7	14,368	25.1	34.6	59.7
1987	242.8	15,744	28.4	36.4	64.8
1988	245.0	14,628	29.3	30.4	59.7
1989	247.3	15,485	34.2	28.4	62.6
1990	249.9	16,349	37.6	27.8	65.4
1991	252.7	16,363	37.5	27.3	64.8
1992	255.5	16,106	37.7	25.3	63.0
1993	258.2	20,334	40.6	38.2	78.8
1994	260.7	19,309	40.1	34.0	74.1
1995	263.0	16,484	37.2	25.5	62.7
1996	265.3	16,474	36.1	26.0	62.1
1997	268.2	17,132	36.7	27.2	63.9
1998	270.6	16,897	34.0	28.5	62.5
1999	272.9	17,378	34.2	29.5	63.7

(1) Data include U.S. commercial landings and imports of both edible and nonedible (industrial) fishery products on a round weight basis. "Total supply" is not adjusted for beginning and ending stocks, defense purchases, or exports.

Value Added

SUMMARY OF 1999 VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR COMMERCIAL MARINE FISHERY PRODUCTS IN THE UNITED STATES (1)

Sector or type of activity	Purchase of fishery inputs Thousand Dollars	Mark-up of fishery inputs Percentage of Fishery Inputs	Total mark-up within sector Thousand Dollars	Value added as percent of total mark-up Percentage	Value added within sector Thousand Dollars	Value of sales by sector Thousand Dollars	Value added contribution Percentage of GNP Contribution	Offshore fleet & exported fishery products Thousand Dollars
Domestic Harvest:								
Edible	-	100.0	\$3,298,468	63.3	\$2,087,536	\$3,298,468	7.7	-
Industrial	-	100.0	\$113,082	59.6	\$67,410	\$113,082	0.2	-
Harvest not landed in U.S	-	100.0	\$134,908	70.6	\$95,308	\$134,908	0.4	\$134,908
Imports, Unprocessed	\$3,744,608	-	-	-	-	\$3,744,608	-	-
Exports, Unprocessed	-	-	-	-	-	-	-	\$917,693
Primary Wholesale and Processing	\$6,238,465	93.5	\$5,834,232	60.4	\$3,525,934	\$12,072,698	13.0	-
Imports, Processed	\$5,405,276	-	-	-	-	\$5,405,276	-	-
Exports, Processed	-	-	-	-	-	-	-	\$1,964,962
Secondary Wholesale and Processing:								
Edible	\$15,312,295	62.7	\$9,602,356	28.0	\$2,692,840	\$24,914,651	9.9	-
Industrial	\$200,716	62.7	\$125,869	28.0	\$35,298	\$326,586	0.1	-
Retail Trade from Food Service	\$12,605,266	182.4	\$22,992,775	69.8	\$16,040,427	\$35,598,041	59.0	-
Retail Trade from Stores	\$12,309,384	33.4	\$4,114,077	64.2	\$2,642,535	\$16,423,462	9.7	-
TOTAL U.S. VALUE ADDED ACTIVITY:					\$27,187,340	\$52,348,088	100.0	-

CONSUMERS EXPENDITURES (& WHOLESALE PURCHASES OF INDUSTRIAL PRODUCTS) FOR FISHERY PRODUCTS:

(1) Includes industrial products and landings by U.S.-flag vessels at U.S. ports, foreign ports, and transfers to internal water processing vessels. Note.-- The table reports the contribution of commercial marine fishing to the national economy as measured by margin, value added, and sales. These measures are consistent with the Bureau of the Census definitions.

Margin or mark-up is the difference between the price paid for the product by the consumer or wholesale purchaser and the dockside or wholesale value for an equivalent weight of the product. (It is assumed that fishermen catch their fish without paying purchase price and therefore the entire dockside or exvessel price is considered margin.) Value added is a measure of the factors added to the total worth of a product at each stage of the production process. It is defined as the gross receipts of firms minus the cost of purchased goods and services needed to fabricate the products. Gross National Product (GNP) is equal to the sum the value added of all economic entities in the economy. Value added within a sector represents that sector's contribution to GNP.

Value added includes wages, salaries, interest, depreciation, rent, taxes and profit. Consumer expenditures are the final retail value of seafood products sold through stores and food service outlets plus secondary wholesale and processing of industrial products.

Prices

The Exvessel Price table is an index of changes in the relative dockside value of fish and shellfish sold by fishing vessels. The table indexes the average annual exvessel value (price per pound) received for each species or group to the average price per pound received for the same species or group in the base year 1982.

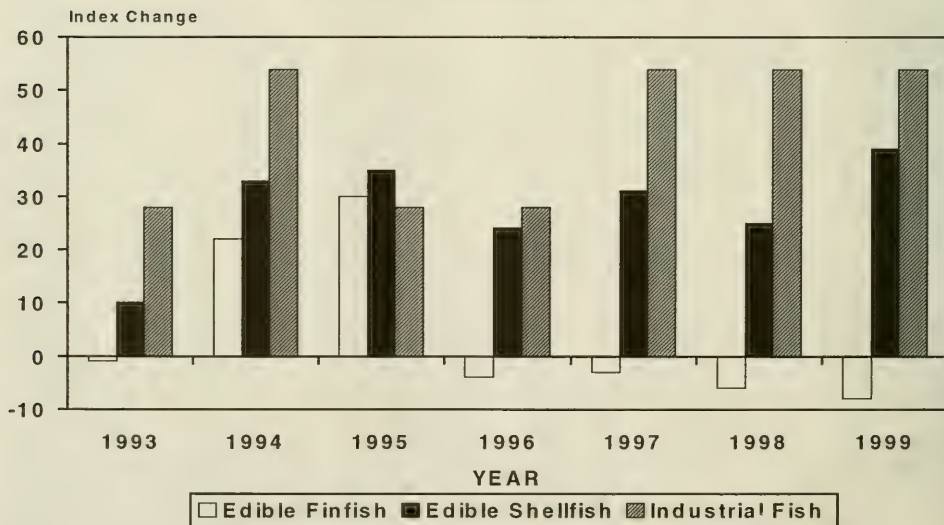
The exvessel price for each year was obtained by dividing total value for each species or group by its total quantity as reported in the U. S. commercial landings tables on pages 1 thru 4. The index for each species or group was obtained by multiplying the

current annual price by the total quantity caught in 1982 (the base year). That number was then divided by the 1982 value to obtain the final index:

$$\frac{(100 \times \text{Current price} \times 1982 \text{ quantity})}{1982 \text{ Annual value}} = \text{Index}$$

Each index number measures price changes from the 1982 reference period when the index equaled 100. A species of fish that sold for \$0.75 a pound in 1986 and a \$1.00 a pound in 1982 would have an index of 75 in 1986. In 1999, if the price of the same species increased to \$1.07, the index in 1999 would be 107.

Percent Changes in the Exvessel Price Index, 1993-1999
(Change Relative to Base Year = 1982)



INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY YEARS, 1993-99 (1982=100)

Species	1993	1994	1995	1996	1997	1998	1999
Groundfish, et al:							
Cod	105	92	77	76	84	68	68
Haddock	277	287	277	239	218	253	264
Pollock:							
Atlantic	299	365	412	311	255	294	372
Alaska	194	212	161	160	170	124	124
Flounders	61	80	96	91	63	67	74
Total groundfish, et al.	115	125	125	115	100	99	106
Halibut	115	171	173	199	195	165	180
Sea herring	63	86	126	137	63	46	57
Salmon:							
Chinook	81	76	76	63	70	64	92
Chum	95	58	66	36	49	39	40
Pink	59	73	67	38	52	61	61
Sockeye	80	101	100	94	103	131	87
Coho	74	76	54	48	70	54	96
Total salmon	78	85	82	69	81	90	81
Swordfish	92	107	104	103	91	70	76
Tuna:							
Albacore	132	125	120	130	124	99	125
Bluefin	766	666	954	229	353	295	736
Skipjack	85	127	83	82	93	79	63
Yellowfin	112	205	283	113	126	100	88
Total tuna	117	181	212	105	118	96	94
Total edible finfish	97	122	130	96	97	94	92
Clams:							
Hard	113	105	113	148	163	174	160
Ocean Quahog	128	129	136	142	145	148	154
Soft	233	248	250	205	236	238	255
Surf	88	118	118	115	116	103	99
Total clams	126	133	138	147	159	161	157
Crabs:							
Blue	201	260	284	266	271	271	303
Dungeness	95	145	176	143	210	192	213
King	127	146	104	100	94	80	175
Snow	78	144	237	130	76	54	85
Total crabs	123	166	182	144	135	121	178
American lobster	117	128	141	147	138	138	160
Oysters	183	175	179	214	199	188	191
Scallops:							
Bay	161	49	55	69	111	90	133
Calico	(1)	94	124	-	217	(1)	93
Sea	159	138	138	153	179	166	166
Total scallops	141	126	131	129	178	141	155
Shrimp:							
Gulf and South Atlantic	80	110	99	88	106	94	97
Other	128	142	179	148	134	331	152
Total shrimp	82	111	103	91	107	105	100
Total edible shellfish	110	138	135	124	133	125	139
Total edible fish and shellfish	104	131	133	111	117	111	118
Industrial fish, Menhaden	128	154	128	128	154	154	154
All fish and shellfish	105	132	132	112	119	113	119

(1) Confidential data.

Employment, Craft, and Plants

ESTIMATED NUMBER OF COMMERCIAL FISHING VESSELS (1) AND FISHING BOATS (2) BY REGION AND STATE, 1997 - 1998

Area and State	1997			1998		
	Vessels	Boats	Total	Vessels	Boats	Total
Northeast:						
Connecticut	225	377	602	245	318	563
Delaware	175	NA	175	175	NA	175
Maine	1,733	5,828	7,561	1,642	5,799	7,441
Maryland (3)	33	NA	33	33	NA	33
Massachusetts	737	4,510	5,247	715	4,500	5,215
New Hampshire	128	483	611	115	461	576
New Jersey	420	1,181	1,601	387	1,147	1,534
New York (4)	689	2,541	3,230	689	2,931	3,620
Rhode Island	308	2,469	2,777	312	2,401	2,713
Virginia (3)	122	NA	122	122	NA	122
South Atlantic and Gulf:						
North Carolina	835	NA	835	891	NA	891
South Carolina	654	NA	654	569	NA	569
Georgia	351	NA	351	350	NA	350
Florida	2,437	6,648	9,085	2,384	6,157	8,541
Alabama	359	1,320	1,679	398	1,338	1,736
Mississippi	591	856	1,447	454	688	1,142
Louisiana	2,650	10,987	13,637	2,535	11,637	14,172
Texas	NA	NA	NA	NA	NA	NA
West Coast:						
Alaska	7,098	9,344	16,442	6,910	9,049	15,959
Washington	1,070	585	1,655	904	428	1,332
Oregon	732	328	1,060	668	296	964
California	1,567	1,421	2,988	1,387	1,179	2,566
Hawaii	2,833	NA	2,833	2,855	NA	2,855
Great Lakes (5)						
Illinois	5	NA	5	5	NA	5
Indiana	NA	NA	NA	NA	NA	NA
Michigan	61	75	136	61	74	135
Minnesota	1	23	24	1	22	23
New York	1	NA	1	2	NA	2
Ohio	38	17	55	40	19	59
Pennsylvania	2	1	3	2	1	3
Wisconsin	97	44	141	89	16	105

(1) Vessels are documented craft greater than 5 net registered tons.

(2) Boats are craft less than 5 net registered tons.

(3) Only Federal collected data are available. Inshore data not available.

(4) Excludes vessels and boats in the Great Lakes.

(5) Commercial fishing fleet sizes for the Great Lakes states represent only the number of licenses issued by the State; therefore, may not be an accurate total. Tribal data are not included in this table.

NA -- Data not available or provided separately.

Employment, Craft, and Plants

PROCESSORS AND WHOLESALERS: PLANTS, AND EMPLOYMENT, 1998

Area and State	Processing		Wholesale (1)		Total	
	Plants	Employment	Plants	Employment	Plants	Employment
-----Number-----						
New England:						
Maine	51	1,703	227	1,625	278	3,328
New Hampshire	9	390	27	171	36	561
Massachusetts	68	2,563	323	2,554	391	5,117
Rhode Island	18	406	60	352	78	758
Connecticut	4	68	37	304	41	372
Total	150	5,130	674	5,006	824	10,136
Mid-Atlantic:						
New York	7	176	351	2,441	358	2,617
New Jersey	15	1,189	138	909	153	2,098
Pennsylvania	6	1,890	64	790	70	2,680
Delaware	(2)	(2)	(2)	(2)	(2)	(2)
District of Columbia	-	-	6	101	6	101
Maryland	31	982	88	717	119	1,699
Virginia	40	1,661	82	579	122	2,240
Total	99	5,898	729	5,537	828	11,435
South Atlantic:						
North Carolina	47	1,353	97	869	144	2,222
South Carolina	5	82	28	194	33	276
Georgia	8	1,259	58	586	66	1,845
Florida	108	3,142	374	2,984	482	6,126
Total	168	5,836	557	4,633	725	10,469
Gulf:						
Alabama	83	1,423	54	724	137	2,147
Mississippi	36	2,551	35	248	71	2,799
Louisiana	120	2,787	168	1,152	288	3,939
Texas	27	1,479	114	1,375	141	2,854
Total	266	8,240	371	3,499	637	11,739
Pacific:						
Alaska	193	8,940	205	353	398	9,293
Washington	88	3,659	213	1,689	301	5,348
Oregon	38	1,376	24	289	62	1,665
California	134	6,467	410	4,896	544	11,363
Total	453	20,442	852	7,227	1,305	27,669
Inland States, Total	39	1,517	289	2,747	328	4,264
Other Areas or States:						
(3), Total	26	9,370	60	653	86	10,023
Grand total	1,201	56,433	3,532	29,302	4,733	85,735

(1) Data are based on Standard Industrial Classification Code 5146, as reported by the Bureau of Labor Statistics.

(2) Included with Inland States for confidentiality reasons.

(3) Includes American Samoa, Hawaii, and Puerto Rico

The Magnuson-Stevens Fishery Conservation and Management Act

The Magnuson-Stevens Fishery Conservation and Management Act, Public Law 94-265 as amended (Magnuson-Stevens Act), provides for the conservation and management of fishery resources within the U.S. Exclusive Economic Zone (EEZ). It also provides for fishery management authority over continental shelf resources and anadromous species beyond the EEZ, except when they are found within a foreign nation's territorial sea or fishery conservation zone (or equivalent), to the extent that such sea or zone is recognized by the United States.

The EEZ extends from the seaward boundary of each of the coastal States (generally 3 nautical miles from shore for all but two States) to 200 nautical miles from shore. The seaward boundaries of Texas, Puerto Rico, and the Gulf coast of Florida are 3 marine leagues (9 nautical miles). The EEZ encompasses approximately 3.36 million square nautical miles.

GOVERNING INTERNATIONAL FISHERY AGREEMENTS

Under the Magnuson-Stevens Act, the Secretary of State, in cooperation with the Secretary of Commerce, negotiates Governing International Fishery Agreements (GIFAs) with foreign nations requesting to fish within the EEZ. After a GIFA is signed, it is transmitted by the President to the Congress for ratification.

FOREIGN FISHING PERMITS

Title II of the Magnuson-Stevens Act governs foreign fishing in the EEZ. The process applied to foreign fishing has been described in prior issues of this publication. As U.S. fishing capacity grew, foreign participation in directed fisheries, as well as in foreign joint ventures in which U.S. vessels delivered U.S. harvested fish to permitted foreign vessels in the EEZ diminished until, in 1991, foreign vessels no longer were permitted to conduct directed fishing in the EEZ. This marked the achievement of one of the objectives of the Magnuson-Stevens Act, that is, the development of the U.S. fishing industry to take what were in 1976 underutilized species, and the displacement of directed foreign fishing effort in the EEZ.

As a result of the above, there has been no total allowable level of foreign fishing since 1991, although 10,000 mt of Atlantic mackerel and 40,000 mt of

Atlantic herring were available for joint venture fishing in 1999. NMFS continues to maintain certain regulations pertaining to foreign fishing should there be a situation in the future in which allowing limited foreign fishing in an underutilized fishery would be of advantage to the U.S. fishing industry.

FMPs and PMPs

Under the Magnuson-Stevens Act, eight Regional Fishery Management Councils are charged with preparing Fishery Management Plans (FMPs) for the fisheries needing management within their areas of authority. After the Councils prepare FMPs that cover domestic and foreign fishing efforts, the FMPs are submitted to the Secretary of Commerce (Secretary) for approval and implementation. The Department, through NMFS agents and the U.S. Coast Guard, is responsible for enforcing the law and regulations.

The Secretary is empowered to prepare FMPs in the Atlantic and Gulf of Mexico for highly migratory species. Where no FMP exists, Preliminary Fishery Management Plans (PMPs), which only cover foreign fishing efforts, are prepared by the Secretary for each fishery for which a foreign nation requests a permit. The Secretary is also empowered to produce an FMP for any fishery that a Council has not duly produced. In this latter case, the Secretary's FMP covers domestic and foreign fishing.

As of December 31, 1999, six Preliminary Fishery Management Plans (PMPs) were in effect, some of which have been amended since first being implemented.

The Atlantic swordfish, Atlantic sharks, and Atlantic tunas are managed under one FMP, while Atlantic billfish fisheries are managed by a second Secretarial plan under the Magnuson-Stevens Act. The Western Atlantic bluefin tuna fishery is managed under the Magnuson-Stevens Act and the Atlantic Tunas Convention Act.

FISHERY MANAGEMENT PLANS (FMPs)

Under section 304 of the Magnuson-Stevens Act, all Council-prepared FMPs must be reviewed for approval by the Secretary. After FMPs have been approved under section 304 of the Magnuson-Stevens Act, they are implemented by Federal regulations, under section 305 of the Act. As of December 31,

The Magnuson-Stevens Fishery Conservation and Management Act

1999 there were 40 FMPs in place, including, the two Secretarial FMPs for Atlantic highly migratory species. The 38 FMPs the Councils prepared are listed below. The FMPs are amended by the Councils and the amendments are submitted for approval under the same Secretarial review process as new FMPs. Most of the FMPs listed have been amended since initial implementation. Those marked with a double asterisk (**) were amended in 1999.

Northeast Multispecies (**)

Atlantic Herring

Monkfish

Atlantic Bluefish (**)

Atlantic Coast Red Drum (**)

Atlantic Mackerel, Squid, and Butterfish (**)

Atlantic Salmon (**)

Atlantic Sea Scallops (**)

Atlantic Surf Clams and Ocean Quahogs (**)

Summer Flounder, Scup, and Black Sea Bass (**)

Spiny Dogfish

Gulf and South Atlantic Spiny Lobster (**)

Caribbean Reef Fish (**)

Gulf of Mexico Reef Fish (**)

Gulf of Mexico Corals (**)

South Atlantic Corals (**)

South Atlantic Golden Crab (**)

Caribbean Coral Reef Resources (**)

Gulf of Mexico Shrimp (**)

Gulf of Mexico Stone Crab (**)

Gulf of Mexico Red Drum (**)

Coastal Migratory Pelagics (**)

Caribbean Queen Conch (**)

Caribbean Spiny Lobster (**)

South Atlantic Snapper/Grouper (**)

South Atlantic Shrimp (**)

Coastal Pelagic Species (**)

King and Tanner Crab (**)

Commercial and Recreational Salmon

High Seas Salmon (**)

Pacific Coast Groundfish (**)

Gulf of Alaska Groundfish (**)

Bering Sea and Aleutian Islands Groundfish (**)

Alaska Scallops (**)

Western Pacific Crustaceans (**)

Western Pacific Precious Corals (**)

Western Pacific Bottomfish and Seamount Groundfish (**)

Western Pacific Pelagics (**)

In 1999, NMFS published 940 documents in the *Federal Register* that affected domestic fishing issues and either proposed or implemented fishery management actions (i.e., FMP and amendments). The documents published included hearing, meeting, correction, and proposed and final rule documents.

The Magnuson-Stevens Fishery Conservation and Management Act

REGIONAL FISHERY MANAGEMENT COUNCILS

<u>Council</u>	<u>Constituent States</u>	<u>Telephone Number</u>	<u>Executive Directors and Addresses</u>
NEW ENGLAND	(Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut)	978-465-0492 FAX: 465-3116	Paul J. Howard 50 Water St. The Tannery -- Mill 2 Newburyport, MA 01950
MID-ATLANTIC	(New York, New Jersey, Delaware, Pennsylvania, Maryland, Virginia, and North Carolina)	302-674-2331 FAX: 674-5399	David R. Keifer Federal Bldg., Rm. 2115 300 South New St. Dover, DE 19904
SOUTH ATLANTIC	(North Carolina, South Carolina, Georgia and Florida)	803-571-4366 FAX: 769-4520	Robert K. Mahood 1 Southpark Circle Suite 306 Charleston, SC 29407
GULF OF MEXICO	(Texas, Louisiana Mississippi, Alabama, and Florida)	843-228-2815 FAX: 225-7015	Wayne E. Swingle 3018 U.S. Highway 301 North, Suite 1000 Tampa, FL 33619
CARIBBEAN	(U.S. Virgin Islands and Commonwealth of Puerto Rico)	809-766-5926 FAX: 766-6239	Miquel A. Rolon 268 Ave. Munoz Rivera Suite 1108 San Juan, PR 00918
PACIFIC	(California, Washington, Oregon, and Idaho)	503-326-6352 FAX: 326-6831	Donald O. McIsaac 2130 S.W. 5th Ave. Suite 224 Portland, OR 97201
NORTH PACIFIC	(Alaska, Washington, and Oregon)	907-271-2809 FAX: 271-2817	Chris W. Oliver, Acting 605 W. 4th Ave. Room 306 Anchorage, AK 99501
WESTERN PACIFIC	(Hawaii, American Samoa, Guam, and Commonwealth of the Northern Mariana Islands)	808-522-8220 FAX: 522-8226	Kitty M. Simonds 1164 Bishop St. Suite 1400 Honolulu, HI 96813

The Magnuson-Stevens Fishery Conservation and Management Act

OPTIMUM YIELD (OY) AND OTHER SPECIFICATIONS, INCLUDING AMOUNTS AVAILABLE FOR JOINT VENTURE PROCESSING: NORTH ATLANTIC, BY SPECIES, 1999 (1)

Item	Loligo squid	Illex squid	Atlantic mackerel	Butterfish	Atlantic herring
----- Metric tons, round weight -----					
Maximum OY	(2) 26,000	(2) 24,000	(3)	(2) 16,000	(4) 89,220
ABC	21,000	22,800	383,000	7,200	89,220
Initial OY	21,000	22,800	(5) 75,000	5,900	89,220
DAH	21,000	22,800	(6) 75,000	5,900	89,220
DAP	21,000	22,800	50,000	5,900	49,220
JVP	0	0	10,000	0	40,000
TALFF	0	0	0	0	0

(1) OY=Optimum Yield; ABC=Allowable Biological Catch; DAH=Domestic Annual Harvest; DAP=Domestic Annual Processing; JVP=Joint Venture Processing; and TALFF=Total Allowable Level of Foreign Fishing.

(2) Maximum OY based on the Fishery Management Plan for Atlantic mackerel, squid and butterfish.

(3) Not applicable based on the Fishery Management Plan for Atlantic mackerel, squid and butterfish.

(4) Maximum OY based on the Fishery Management Plan for Atlantic Herring.

(5) Initial OY can increase during the year, but the total cannot exceed 383,000 metric tons.

(6) Including 15,000 metric tons of Atlantic mackerel recreational allocation.

Source:--NMFS, Office of Sustainable Fisheries, F/SF; and NMFS, Northeast Region, F/NER.

General Administrative Information

UNITED STATES DEPARTMENT OF COMMERCE

14th and Constitution Ave., NW
Washington, DC 20230

<u>MAIL ROUTING CODE</u>		<u>TELEPHONE NUMBER</u>
--	Secretary of Commerce Norman Y. Mineta	202-482-2112
A	Under Secretary for Oceans and Atmosphere D. James Baker	202-482-3436

NATIONAL MARINE FISHERIES SERVICE

1315 East-West Highway
Silver Spring Metro Center #3 (SSMC)
Silver Spring, MD 20910

F	Assistant Administrator for Fisheries -- Penelope D. Dalton	301-713-2239
	Deputy Assistant Administrator for Fisheries -- William T. Hogarth	301-713-2239
Fx1	Staff Office for Industry and Trade -- Linda Chaves	301-713-2379
Fx2	Staff Office for Intergovernmental and Recreational Fisheries -- Richard Schaefer	301-427-2401
Fx3	Equal Employment Opportunity -- Natalie Huff	301-713-2252
F/SI	Seafood Inspection Program -- Samuel W. McKeen	301-713-2351
F/EN	Office of Law Enforcement -- Dale Jones	301-427-2300
F/EN1	Enforcement Operations Division	301-427-2300
F/EN11	Enforcement Programs Branch	301-427-2300
F/HC	Office of Habitat Conservation -- Gary Mayer, Acting	301-713-2325
F/HCx1	Chesapeake Bay Program Office	410-267-5660
F/HC1	Watershed Division	301-713-2325
F/HC2	Habitat Protection Division	301-713-2325
F/HC3	Habitat Restoration Division	301-713-0174

General Administrative Information ---

UNITED STATES DEPARTMENT OF COMMERCE

Silver Spring, Md. 20910

<u>MAIL ROUTING CODE</u>		<u>TELEPHONE NUMBER</u>
F/OMI	Office of Operations, Management & Information -- Thomas Gary	301-713-2239
F/OMI1	Administrative & Budget Processes Division	301-713-2245
F/OMI2	Planning and Development Division	301-713-2252
F/OMI3	Information Management Division	301-713-2372
F/PR	Office of Protected Resources -- Donald Knowles	301-713-2332
F/PRx1	Marine Biodiversity Team	301-713-2319
F/PR1	Permits and Documentation Division	301-713-2289
F/PR2	Marine Mammal Conservation Division	301-713-2322
F/PR3	Endangered Species Division	301-713-1401
F/SF	Office of Sustainable Fisheries -- Clarence G. Pautzke, Acting	301-713-2334
F/SF1	Highly Migratory Species Division	301-713-2347
F/SF2	Financial Services Division	301-713-2390
F/SF3	Domestic Fisheries Division	301-713-2341
F/SF4	International Fisheries Division	301-713-2276
F/SF5	Regulatory Services Division	301-713-2355
F/SF6	National Seafood Laboratory	301-713-2334
F/ST	Office of Science and Technology -- William W. Fox, Jr.	301-713-2367
F/ST1	Fisheries Statistics & Economics Division	301-713-2328
F/ST2	Research Analysis and Coordination Division	301-713-2363
F/ST21	Scientific Publications Unit	206-526-6107
F/ST3	International Science Coordination and Analysis Division	301-713-2288
LA11	Office of Congressional Affairs - Fisheries -- Peter Hill	301-713-2263
PAF	Office of Public Affairs - Fisheries -- Gordon Helm	301-713-2370
GCF	Office of General Counsel - Fisheries -- Margaret Hayes	301-713-2231

General Administrative Information

NATIONAL MARINE FISHERIES SERVICE REGIONAL FACILITIES

<u>MAIL ROUTING CODE</u>	<u>OFFICE</u>	<u>TELEPHONE and FAX NUMBER</u>	<u>LOCATION</u>
F/NER	Northeast Region One Blackburn Drive Gloucester, MA 01930	978-281-9300 Fax-281-9371	Gloucester, MA
F/NEC3	Northeast Fisheries Science Center 166 Water St. - Rm. 312 Woods Hole, MA 02543	508-495-2233 Fax-495-2232	Woods Hole, MA
	Woods Hole Laboratory 166 Water St. Woods Hole, MA 02543	508-495-2000 Fax-495-2258	Woods Hole, MA
	Narragansett Laboratory 28 Tarwell Drive Narragansett, RI 02882	401-782-3200 Fax-782-3201	Narragansett, RI
	Milford Laboratory 212 Riggs Ave. Milford, CT 06460	203-579-7000 FAX-579-7070	Milford, CT
	Sandy Hook Laboratory Building 74, McGruder Highlands, NJ 07732	732-872-3000 FAX-872-3088	Highlands, NJ
F/NEC3	Natl. Systematics Laboratory, MRC153 10th & Constitution Ave., NW Washington, DC 20560	202-357-2550 FAX-357-1896	Washington, DC
F/SER	Southeast Region 9721 Executive Center Drive, N. St. Petersburg, FL 33702	727-570-5301 FAX-570-5300	St. Petersburg, FL
F/SEC	Southeast Fisheries Science Center 75 Virginia Beach Dr. Miami, FL 33149	305-361-4284 FAX-361-4219	Miami, FL
F/SEC4	Miami Laboratory 75 Virginia Beach Dr. Miami, FL 33149	305-361-4225 FAX-361-4499	Miami, FL
F/SEC5	Mississippi Laboratories 3209 Frederick St., P.O. Drawer 1207 Pascagoula, MS 39567	228-762-4591 FAX-769-9200	Pascagoula, MS
F/SEC6	Panama City Laboratory 3500 Delwood Beach Rd. Panama City, FL 32408	850-234-6541 FAX-234-3559	Panama City, FL
F/SEC7	Galveston Laboratory 4700 Avenue U Galveston, TX 77551	409-766-3500 FAX-766-3508	Galveston, TX

(Continued)

General Administrative Information ---

NATIONAL MARINE FISHERIES SERVICE REGIONAL FACILITIES

<u>MAIL ROUTING CODE</u>	<u>OFFICE</u>	<u>TELEPHONE and FAX NUMBER</u>	<u>LOCATION</u>
F/SEC9	Beaufort Laboratory 101 Pivers Island Rd Beaufort, NC 28516	252-728-3595 FAX-728-8784	Beaufort, NC
F/NWR	Northwest Region 7600 Sand Point Way, N.E. BIN C15700, Bldg. 1 Seattle, WA 98115	206-526-6150 FAX-526-6426	Seattle, WA
F/NWC	Northwest Fisheries Science Center West Bldg. - Rm. 363 2725 Montlake Boulevard, East Seattle, WA 98112	206-860-3200 FAX-860-3217	Seattle, WA
F/SW	Southwest Region 501 West Ocean Blvd., Suite 4200 Long Beach, CA 90802	562-980-4000 FAX-980-4018	Long Beach, CA
F/SWC	Southwest Fisheries Science Center 8604 La Jolla Shores Dr. P.O. Box 271 La Jolla, CA 92038	858-546-7000 FAX-546-5655	La Jolla, CA
F/SWC2	Honolulu Laboratory 2570 Dole Street, Rm. 106 Honolulu, HI 96822	808-983-5300 FAX-943-1248	Honolulu, HI
	Pacific Islands Area Office 1601 Kapiolani Blvd., Rm. 1110 Honolulu, HI 96814	808-973-2937 FAX-983-2900	Honolulu, HI
F/SWC3	Santa Cruz / Tiburon Laboratory 110 Shaffer Rd. Santa Cruz, CA 95060	415-435-3149 FAX-435-3675	Santa Cruz, CA
F/SWC4	Pacific Fisheries Environmental Group 1352 Lighthouse Ave. Pacific Grove, CA 93950	408-648-8515 FAX-648-8440	Pacific Grove, CA
F/AKR	Alaska Region 709 West 9th Street, Room 453 P.O. Box 21668 Juneau, AK 99802	907-586-7221 FAX-586-7249	Juneau, AK
F/AKC	Alaska Fisheries Science Center, 7600 Sand Point Way, N.E. P.O. Box C15700 - Bldg. #4 - Rm. 2149 Seattle, WA 98115	206-526-4000 FAX-526-4004	Seattle, WA
	Kodiak Laboratory 301 Research Court Kodiak, AK 99615	907-481-1700 FAX-481-1701	Kodiak, AK
F/AKC4	Auke Bay Laboratory 11305 Glacier Highway Auke Bay, AK 99801	907-789-6000 FAX-789-6094	Auke Bay, AK

General Administrative Information

NATIONAL MARINE FISHERIES SERVICE NATIONAL FISHERY STATISTICS OFFICES

<u>CITY</u>	<u>TELEPHONE NUMBER</u>	<u>NAME AND ADDRESS</u>
<u>NEW ENGLAND:</u>		
(1) Portland	207-780-3322 FAX:780-3340	Robert C. Morrill / Scott McNamara / Jessica Holton / Stephen Link, Marine Trade Center, Suite 212 Two Portland Fish Pier, Portland, ME 04101
Boston	617-223-8015 FAX:223-8526 617-223-8012 FAX:223-8526	Paul Sheahan, Statistics Office, 408 Atlantic Ave., Rm. 141, Boston, MA 02210 Jack French, Boston Market News, 408 Atlantic Ave., Rm. 141, Boston, MA 02210
(1) Gloucester	978-281-9304 FAX:281-9161	Gregory R. Power, Fishery Inf. Section, One Blackburn Dr., Gloucester, MA 01930
Gloucester	978-281-9363 FAX:281-9372	Don Mason / William Heiskel1, Rm. 107, 1 Blackburn Dr. Gloucester, MA 01930
New Bedford	508-999-2452 FAX:990-2506	Dennis E. Main / Sarah Pike, U.S. Custom House, 37 N. Second St., New Bedford, MA 02740
Chatham	508-945-5961 FAX:945-3793	Lorraine Spenle, 29C Stage Harbor Road Chatham, MA 02633
Woods Hole	508-495-2000 FAX:495-2258	John Mahoney, Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543
Point Judith	401-783-7797 FAX:782-2113	Walter Anoushian, 83 State St., 2nd floor, P.O. Box 547, Narragansett, RI 02882
<u>MIDDLE ATLANTIC AND CHESAPEAKE:</u>		
New York	212-620-3405 FAX:620-3577	Leo Gaudin / R. Santangelo, New York Market News, 201 Varick St. Rm. 701, New York, NY 10014
East Hampton	631-324-3569 FAX:324-3314	Erik Braun, 62 Newtown Lane, Suite 203, East Hampton, NY 11937
Patchogue	631-475-6988 FAX:289-8361	David McKernan, Social Security Bldg., 50 Maple Ave., P.O.Box 606 Patchogue, L.I., NY 11772
(1) Toms River	732-349-3533 FAX:349-4319	Eugene Steady / Joanne Pellegrino, 26 Main St., P.O. Box 143, Toms River, NJ 08754
Cape May	609-884-2113 FAX:884-4908	Walt Makowski, 1382 Lafayette St., P.O. Box 624, Cape May, NJ 08204
Ocean City	410-213-2761 FAX:213-7029	Ingo Fleming, 12904 Kelly Bridge Lane, P.O. Box 474, Ocean City, MD 21843
Hampton	757-723-3369 FAX:728-3947	David Ulmer / Steve Ellis / George Mattingly, 1926 Settlers Landing Rd., Suite F, P.O. Box 436, Hampton, VA 23669
<u>SOUTH ATLANTIC AND GULF:</u>		
(1) Beaufort	252-728-8721 FAX:728-8772	Linda Hardy, Beaufort Laboratory, 101 Piver Island Rd., Beaufort, NC 28516
New Smyrna Beach	904-427-6562 FAX: SAME	Claudia Dennis, Coast Guard Station/Ponce, P.O. Box 2025, New Smyrna Beach, FL 32170
Tequesta	561-575-4461 FAX:361-4565	H.Charles Schaefer / Michelle Gamby, 19100 S.E. Fedl. Highway, Tequesta, FL 33469
(1) Miami	305-361-4468 FAX:361-4460	Guy S. Davenport / Pam Brown-Eyo, 75 Virginia Beach Dr., Miami, FL 33149

(Continued)

General Administrative Information

NATIONAL MARINE FISHERIES SERVICE NATIONAL FISHERY STATISTICS OFFICES

<u>CITY</u>	<u>TELEPHONE NUMBER</u>	<u>NAME AND ADDRESS</u>
<u>SOUTH ATLANTIC AND GULF:</u>		
Key West	305-294-1921 FAX: SAME	Edward J. Little, Jr., Federal Bldg. Rm. 208, 301 Simington St. Key West, FL 33040
Fort Myers	941-334-4364 FAX: SAME	Tom Herbert, 2000 Main St., Suite 409 Fort Myers, FL 33901
St. Petersburg	727-570-5393 FAX: 570-5300	Renee Roman / Greg Fairclough, 9721 Executive Center Dr., St. Petersburg, FL 33702
Panama City	850-234-6541 FAX: 235-3558	Deborah Fable / June Weeks, 3500 Delwood Beach Rd., Panama City, FL 32407
Mobile	334-441-6193 FAX: SAME	Ted Flowers, U.S.Coast Guard - ATC, P.O. Box 97, Mobile, AL 36608
Pascagoula	228-762-7402 FAX: 769-9200	Rene Labadens / Charles Armstrong, 3209 Frederic St., P.O. Box Drawer 1207, Pascagoula, MS 39567
Chalmette	504-277-0365 / 0294 FAX: 271-9150 / 0343	Maggie Bourgeois / Jay Boulet, 2626 Charles Dr., Suite 208, Chalmette, LA 70043
Golden Meadow	504-632-4324 FAX: SAME	Gary J. Rousse, 115 Piciola Pkwy., (Galliano, LA), P.O.Box 623, Golden Meadow, LA 70357
Houma	504-872-3321 FAX: SAME	Kathleen Hebert, 425 Lafayette St., Rm. 128, Houma, LA 70360
	504-872-1403 FAX: SAME	Billy Ray Tucker, 1340 W. Tunnel Blvd., Suite 222, Houma, LA 70360
Marrero	504-328-3225 FAX: SAME	Jan Simpson, 5201 Westbank Expressway, Suite 312, Marrero, LA 70072
New Iberia/ Cameron Port	337-365-8689 / 3230 337-365-1558	Linda F. Guidry / Beth B. Bourgeois, 705-A West Admiral Doyle Dr. New Iberia, LA 70560
New Orleans	504-589-6151 504-589-6149	Debbie Batiste, 423 Canal St., Rm. 213, New Orleans, LA 70130
Aransas Pass	361-758-0436 361-758-1043	Roy Spears, 132 Cleveland Blvd., P.O. Box 1815, Aransas Pass, TX 78336
Brownsville/ Port Isabel	956-548-2516 FAX: SAME	Kit Doncaster / Edie Lopez, Shrimp Turning Basin, HC 70 Box 15, Brownsville, TX 78521
Freeport	979-233-4551 FAX: SAME	Michelle Padgett, Texas Gulf Bank, Suite 213, P.O.Box 2533, Freeport, TX 77542
(1) Galveston	409-766-3705 / 3515 FAX: 766-3543	Margot Hightower or W. Keith Roberts, 4700 Avenue U, Bldg. 30 Galveston, TX 77551
Port Arthur	409-727-2271 FAX: SAME	Linda S. Trahan, Federal Bldg., Rm. 113, 2875 Jimmy Johnson Blvd Port Arthur, TX 77640

SOUTHWEST PACIFIC

(1) Long Beach, CA	562-980-4033 FAX: 980-4047	Patricia J. Donley, 501 West Ocean Boulevard, Rm. 4200, P.O. Box 32469, Long Beach, CA 90832
--------------------	-------------------------------	---

NORTHWEST PACIFIC

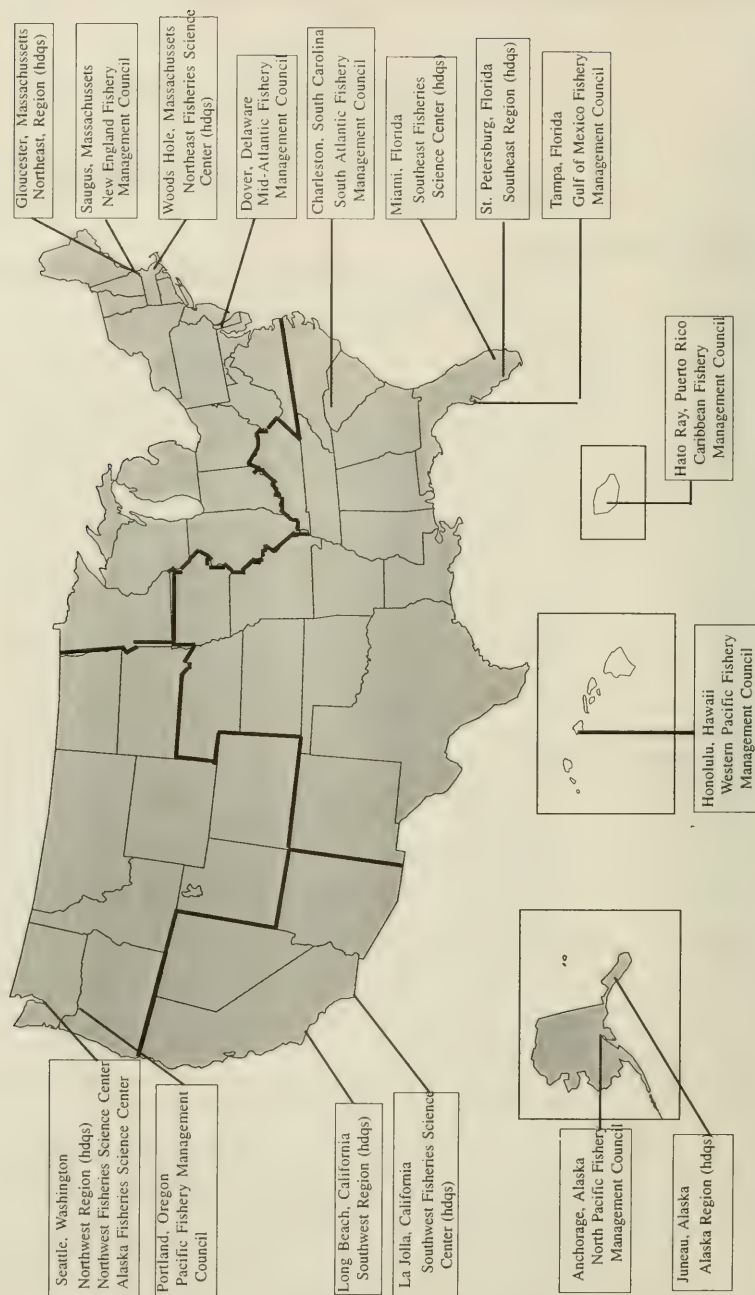
(1) Seattle	206-526-6119 FAX: 526-4461	John K. Bishop, 7600 Sand Point Way, NE, Bldg. 1, BIN C 15700, Seattle, WA 98115
-------------	-------------------------------	---

ALASKA

(1) Juneau	907-586-7323 FAX: 586-7465	David Ham, Federal Building, 4th Floor, 709 West 9th St., P.O. Box 21668, Juneau, AK 99802
------------	-------------------------------	---

NMFS Regional Offices NMFS Fisheries Science Centers Regional Fishery Management Councils

Headquarters Locations



LIBRARY INFORMATION

The NOAA Library and Information Network Catalog (NOAALINC) represents the automated bibliographic holdings of the NOAA Central Library in Silver Spring, Maryland and 27 other NOAA libraries located around the U.S. Currently, the NOAALINC contains records for more than 240,000 items with 5,000-10,000 added each year.

NOAALINC provides several search methods to locate records of items. Users can search for keywords in titles, subject headings, authors, or series. Users can browse indexes of titles, subject headings, authors, series, or call number. Each bibliographic record shows a brief description of the item with a list of which libraries hold the item. The list of libraries will show the call number, item's specific information, and whether the item is available for circulation.

NOAALINC is available to anyone, without restriction, 24 hours a day, every day of the year. Visitors to

the NOAA Central Library can access the catalog thru workstations located throughout the Library. Remote users can access the catalog thru a link from the NOAA Central Library's homepage at - <http://www.lib.noaa.gov/>.

NOAA personnel may contact their nearest NOAA Library or the NOAA Central Library and arrange to borrow materials. Members of the general public should contact their local library to arrange for an interlibrary loan. Restrictions apply on circulation of certain materials.

For further information contact the NOAA Central Library, 1315 East-West Highway, 2nd Floor, Silver Spring, MD 20910-3282. Telephone: 301-713-2600 (Ext. 124) or E-mail: reference@nodc.noaa.gov.

PUBLICATIONS AVAILABLE FROM U.S. GOVERNMENT PRINTING OFFICE

STATISTICAL REPORTS

003-020-00173-4 Fisheries of the United States, 1999...\$17.00

003-020-00170-0 Fisheries of the United States, 1998...\$14.00

003-020-00169-6 Fisheries of the United States, 1997...\$16.00

003-009-00650-3 United States Industrial Outlook 1995: Business Forecasts for 350 Industries...\$19.00

003-009-00650-3 U.S. Global Outlook (Name change) 1995: Business Forecasts for 350 Industries...\$20.00

S/N 703-023-00000-2 (FB) 2D Fishery Bulletin (Quarterly) Publishes Original Research Papers, etc. \$32.00 a year

MISCELLANEOUS REPORTS

003-020-00171-8 Our Living Oceans, Report on the Status of U.S. Living Marine Resources, 1999...\$26.00

***For information or to purchase publications listed above
(Advance Payment Required), call or write:***

**Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20202
PHONE: 202-512-1800
FAX: 202-512-2250**

Internet Orders: https://orders.access.gpo.gov/su_docs/sale/prf/prf.html

PUBLICATIONS AVAILABLE FROM NATIONAL MARINE FISHERIES SERVICE AND NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)

SCIENTIFIC PUBLICATIONS:

Information on formal scientific publications by NMFS (such as NMFS journals and technical publications) may be obtained from the Scientific Publications Office (F/ST21), 7600 Sand Point Way, N.E., BIN C-15700, Seattle, WA 98115.

Telephone: 206-526-6107

CURRENT FISHERY STATISTICS (CFS) SERIES:

The reports listed below are in the Current Fisheries Statistics (CFS) series. They are statistical bulletins on marine recreational fishing, commercial fishing, and on the manufacture and commerce of fishery products. For further information or to obtain a subscription to these publications, contact the office shown below:

NOAA, National Marine Fisheries Service
Fisheries Statistics and Economics Division (F/ST1)
1315 East-West Highway - Station 12340
Silver Spring, MD 20910
Telephone: 301-713-2328

The bulletins shown below cover freezings and holdings prior to 1997 and holdings only for 1997, and the U.S. foreign trade in fishery products. If you wish a copy of the following publications, check the designated space () and return to the Office indicated above. The following are available annually:

- () FF - Frozen Fishery Products (Annual)
- () FT - Imports and Exports of Fishery Products (Annual)

OTHER PUBLICATIONS:

All publications listed below may be obtained from NTIS (address and phone number listed on page 115), the originating office (code follows in parentheses - copies are available only as long as supply lasts), or the appropriate homepage

- () A Guide to Tunas of the Western Atlantic Ocean, NMFS, 1997. 18 p. (SF)
- () Our Living Oceans - Report on The Status of U.S. Living Marine Resources, 1998. (F/ST)

() Our Living Oceans - Report on The Economic Status of U.S. Fisheries, 1996. (F/ST)

() Our Living Oceans - Report on The Status of U.S. Living Marine Resources, 1995 Executive Summary. (F/ST)

() Protecting and Restoring Essential Fish Habitat. (F/HC)

() Report on Apportionments of Membership on the Regional Fishery Management Council (RFMCs) in 1997. (F/SF)

() The Saltonstall-Kennedy Grant Program: Fisheries Development and Utilization Research and Development Grants (F/SF)

() The Saltonstall-Kennedy Grant Program: Fisheries Development and Utilization Research and Development Report to Congress on Status of Fisheries of the United States. National Marine Fisheries Service. October 1998. (SFA homepage) Grants - Annotated Bibliography (F/SF)

() USDC Approved List of Fish Establishments and Products — Semi-Annual Report. (Documentation Approval and Supply Service, Pascagoula, MS., Phone: 228-762-1892)

Atlantic Striped Bass Studies: 1999 Biennial Report to Congress. National Marine Fisheries Service and U.S. Fish and Wildlife Service, 1999. Silver Spring, Maryland. 33 p. (Fx2)

Protecting Marine Mammals: Look from a Distance...but Don't Touch, Feed or Harm in the Wild. Prepared by the Texas Sea Grant Program for the Office of Protected Resources, NMFS, 1992. 6 p. (F/PR)

Recovery Plan for U.S. Pacific Population of the East Pacific Green Turtle (*Chelonia mydas*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR)

Recovery Plan for U.S. Pacific Population of the Green Turtle (*Chelonia mydas*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR)

Recovery Plan for U.S. Pacific Population of Hawksbill Turtle (*Eretmochelys imbricata*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD (F/PR)

Recovery Plan for U.S. Pacific Leatherback Turtle (*Dermochelys coriacea*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD (F/PR)

Recovery Plan for U.S. Pacific Population of the Loggerhead Turtle (*Chelonia caretta*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR)

Recovery Plan for the Olive Ridley Turtle (*Lepidochelys olivacea*). National Marine Fisheries Service and the U.S. Fish and Wildlife Service, 1998. Silver Spring, MD (F/PR)

Report to Congress on Status of Fisheries of the United States. National Marine Fisheries Service. October 1998. (SFA homepage)

Recreational Fishery Resources Conservation Plan, Accomplishment Report for FY1998. National Marine Fisheries Service, 1999. 75 p. Silver Spring, Maryland. (Fx2)

COMMERCIAL FISHERIES:

Fisheries of the United States is a preliminary report with historical comparisons on the Nation's fishing, fish processing, and foreign trade in fishery products. The following reports are available through NTIS.

Year	Accession No.
1966	COM-75-10662
1967	COM-75-10663
1968	COM-75-10664
1969	COM-75-10665
1970	COM-71-50081
1971	COM-75-10666
1972	COM-73-50644
1973	COM-74-50546
1974	COM-75-10862
1975	PB-253966
1976	PB-268662

Year	Accession No.
1977	PB-282741
1978	PB-297083
1979	PB-80-201593
1980	PB-81-241648
1981	PB-82-215542
1982	PB-83-216473
1983	PB-84-195148
1984	PB-86-144953
1985	PB-87-143145
1986	PB-88-164132
1987	PB-88-215173
1988	PB-89-216485
1989	PB-91-129-320
1990	PB-92-174523/AS
1991	PB-93-204536/AS
1992	PB-94-156387
1993	PB-95-219192

Fisheries Statistics of the United States (Statistical Digest) is a final report on the Nation's commercial fisheries showing more detail than Fisheries of the United States.

Year	Accession No.
1939	COM-75-11265
1940	COM-75-11266
1941	COM-75-11267
1942	COM-75-11268
1943	COM-75-11269
1944	COM-75-11270
1945	COM-75-11271
1946	COM-75-11272
1947	COM-75-11273
1948	COM-75-11274
1949	COM-75-11275
1950	COM-75-11056
1951	COM-75-11053
1952	COM-75-11054
1953	COM-75-11055
1954	COM-75-11057
1955	COM-75-11058
1956	COM-75-11059
1957	COM-75-11060
1958	COM-75-11061
1959	COM-75-11062
1960	COM-75-11063
1961	COM-75-11064
1962	COM-75-11065
1963	COM-75-11066
1964	COM-75-11067

Fisheries Statistics of the United States (continued)

Year	Accession No.
1965	COM-75-11068
1966	PB-246429
1967	PB-246430
1968	COM-72-50249
1969	COM-75-10887
1970	COM-75-10643
1971	COM-74-51227
1972	COM-75-11430
1973	PB-262058
1974	PB-277796
1975	PB-300625
1976	PB-81-163438
1977	PB-84-192038

HISTORICAL REPORTS:

Historical Catch Statistics is a series of publications reporting catch of certain species in the United States for historical purposes. The following reports are available through NTIS:

Atlantic and Gulf Coast States, 1879 - 1889.

Current Fisheries Statistics No. 9010 - Historical Series Nos. 5-9 Revised. Report covers total landings for major species, by state and by region. (NTIS No. PB-93-174266)

Atlantic and Gulf Coast States, 1950 - 1991.

Current Fisheries Statistics No. 9210 - Historical Series No. 10- Revised. Report covers landings and value of major species, by Region. (NTIS No. PB-93-174274)

IMPORTS AND EXPORTS OF FISHERY PRODUCTS

Annual Summary:

Year	Accession No.
1982	PB-92-218635
1983	PB-92-218643
1984	PB-92-214972
1985	PB-92-222280
1986	PB-92-228196
1987	PB-92-228055
1988	PB-92-222272
1989	PB-92-222264
1990	PB-92-222256
1991	PB-92-221803
1992	PB-95-219499
1993	PB-95-219481
1994	PB-95-219507

MARINE RECREATIONAL FISHING:

Determination of the Number of Commercial and Non-Commercial Recreational Boats in the United States, Their Use, and Selected Characteristics, COM-74-11186.

Biennial Report to the President of the United States - Federal Agency Implementation of Executive Order 12962 - Recreational Fisheries. National Recreational Fisheries Coordination Council. 12p. 1998 (Fx2)

The NMFS-Specific Plan to Meet the Goals and Objectives of the Recreational Fishery Resources Conservation Plan. National Marine Fisheries Service. 8p. 1997. (Fx2)

Recreational Fishery Resources Conservation Plan. National Marine Fisheries Service. 16p. 1996. (Fx2)

MARINE RECREATIONAL FISHERY STATISTICS SURVEY:

Atlantic and Gulf Coasts:

Year	Accession No.
1979-80	PB-84-199652
1979 (Revised)-1980	PB-89-102552
1981-1982	PB-89-102560
1983-1984	PB-89-102628
1985	PB-89-102669
1986	PB-89-102701
1987-1989	PB-92-174820
1990-1991	(F/ST1)

Pacific Coast:

Year	Accession No.
1981-1982	PB-89-102925/AS
1983-1984	PB-89-102933/AS
1985	PB-89-102941/AS
1986	PB-89-102958/AS
1987-1989	(F/ST1)

PROCESSED FISHERY PRODUCTS:

Annual Summary:

Year	Accession No.
1979	PB-89-215248/AS
1980	PB-89-215255/AS
1981	PB-89-215263/AS
1982	PB-89-215289/AS
1983	PB-89-215271/AS
1984	PB-89-215297/AS
1985	PB-89-215305/AS
1986	PB-89-215313/AS
1987	PB-92-172956
1988	PB-92-204528/AS

STATE LANDINGS:

Maine: 1946-76, PB-271-296; 1977-79, PB-128258.
 Massachusetts: 1943-76, PB-275866; 1977-79, PB-81-143182.
 Rhode Island: 1954-77; PB-287627; 1978-79, PB-81-157158.
 New York: 1954-76, PB-275449; 1977-79, PB-81-134546.
 New Jersey: 1952-76, PB-275696; 1977-79, PB-81-159048
 Maryland: 1960-76, PB-300636; 1977-79, PB-81-159003.
 Virginia: 1960-76, PB-300637; 1977-79, PB-82-151960.
 North Carolina: 1955-76, PB-288928; 1977-79, PB-82-151978.
 South Carolina: 1957-76, PB-289405; 1977-79, PB-81-163198.
 Georgia: 1956-76, PB-289814; 1977-79, PB-81-157166.
 Florida: 1950-76, PB-292068.
 Alabama: 1950-77, PB-80-121262; 1978, PB-82-168071.
 Mississippi: 1951-77, PB-80-121270; 1978, PB-82-169079.
 Louisiana: 1957-77, PB-300583; 1978, PB82-168063.
 Texas: 1949-77, PB-300603; 1978-79, PB-82-169004.
 Shrimp Landings: 1956-76, PB-80-124696; 1978-79, PB-82-156183.

Gulf Coast Shrimp Data: 1958-76, PB-80-126899; 1978-79, PB-82-170390.

INTERNATIONAL REPORTS:

The Division of International Science and Technology, NMFS, prepares assessments of major fisheries to support priority NMFS programs. These reports may be of interest to the wider fishery community as they include biological, commercial, and technical information of potential use to academicians, industry, and environmentalists.

Swordfish:

In 1997 work was completed on a six-volume study, culminating a two-year research project to compile and analyze information on every key swordfish catching nation in the world. World Swordfish Fisheries, is the most comprehensive documentation of this fishery ever produced. Each volume of the study contains information on catch, fishing grounds, fishing fleets, gear and methods, markets, trade, bycatch, research, international relations, and other facets of the fishery. The books are carefully documented and have extensive statistical appendices, graphics, and photographic images to help explain the fishery and illustrate key trends. Work on the swordfish fisheries of the Atlantic States of Latin America is ongoing with major reports scheduled for release in 2000.

World Swordfish Fisheries: An Analysis of Swordfish Fisheries, Market Trends, and Trade Patterns, Past-Present-Future. Complete six-volume set. (NTIS No. PB-98-123414 / GBA).

Volume I: Executive Overview. Summary of World Fisheries for Swordfish and Overview of Global and Regional Trends. 53 p. (NTIS No. PB-98-123425 / GBA).

Volume II: Africa and the Middle East. Examination of Fisheries and Overview of Regional Trends in Africa and in Select Middle Eastern countries. 235 p. (NTIS No. B-98-123433 / GBA).

Volume III: Asia. Summary of Asian Fisheries and Overview of Regional Trends. Special Coverage of Japan, Korea, and Taiwan. 144 p. (NTIS No. PB-98-123441 / GBA).

Volume IV: Latin America. Summary of Swordfish Fisheries, along the Pacific Coast of South America. Both volumes 843 p. Further individual country reports are planned for 1998.

Part A., Section 1, Segment A. Covers Fisheries of Colombia, Ecuador, and Peru (428 p.) (NTIS No. PB-98-123458 / GBA).

Segment B. Provides in-depth Information about Chile (415 p.) (NTIS No. PB-98-123466 / GBA).

Volume V: North America. Overview of Canadian and U.S. Fisheries for Swordfish. 136 p. (NTIS No. PB-98-123474 / GBA).

Volume VI: Western Europe. Examination of European fisheries with special emphasis on the European Union member states (especially Spain, Italy, Greece and France). Non-EU countries are also considered. 324 p. (NTIS No. PB-98-123482 / GBA).

World Fleet:

The Office of International Affairs, NMFS, prepared a six-volume study which analyzed trends in the world's distant-water fishing fleets. The subjects covered included catch, fishing areas, vessel construction and imports, flag-of-convenience registration, international agreements, and joint ventures.

World Fishing Fleets: An Analysis of Distant-water Fleet Operations. Complete six-volume set. (NTIS No. PB-94-140811/ GBA).

Volume I: Executive Summary. Overview of world distant-water fishing fleets and summary of regional trends. 54 p. (NTIS No. PB-94-140829 / GBA).

Volume IV: Latin America. Overview of Caribbean, Central America, South America, and individual reports on the Latin American fleets engaged in distant-water fisheries. 513 p. (NTIS No. PB-94-140852 / GBA).

Volume V: Baltic States, Commonwealth of Independent States, and Eastern Europe. Overview of each of these three blocs and 10 individual country studies including Russia, Poland, and Ukraine. 286 p. (NTIS No. PB-94-140860 / GBA).

Volume VI: Western Europe and Canada. Overview sections for Europe Community and non-EC countries and individual country studies for all West European fishing nations and Canada. 362 p. (NTIS No. PB-94-140878 / GBA).

World Shrimp and Salmon Culture Study:

A detailed overview of the salmon and shrimp culture industries in each of the primary producing countries of the world. The reports include information on species, areas developed, companies and farms, hatcheries, culture methods, research, harvests, exports, investments, environmental factors, trade, feed, and other subjects. The study was completed in 1992.

World Salmon Culture. This book provides detailed information about farmed salmon aquaculture around the world. A historical background is provided for all key farmed salmon producing nations. The work is carefully illustrated with graphs and statistical tables. An excellent resource for individuals seeking background information on salmon culture. 323 p. (NTIS No. PB-93-134617 / GBA).

World Shrimp Culture. Complete work is available in two volumes (Volume II. has 3 parts). Readers may also purchase individual parts separately. 1,152 p. (NTIS No. PB-93-134625 / GBA).

Volume I: Asia, Africa, Europe, the Middle East, and North America. Overview sections for Asia with reporting on shrimp culture in other countries.. 362 p. (NTIS No. PB-94-140878 / GBA).

Volume II. Latin America

Part I: This book includes a detailed Latin American overview and individual reports on the shrimp culture industry in the Caribbean island countries. 326 p. (NTIS No. PB93-134641/ GBA).

Part II: This book includes a brief summary of the shrimp culture industry in Central America as well as individual reports on Mexico and each Central American country. 356 p. (NTIS No. PB93-134658 / GBA).

Part III: This book includes a brief regional summary of shrimp culture in South America and individual reports on the shrimp culture industry of each South American country. 329 p. (NTIS No. PB93-134666 / GBA).

NORTHEAST REGION:

Northwest Atlantic Groundfish: Perspectives on a Fishery Collapse. Boreman, J., B.S. Nakashima, J.A. Wilson, and R.L. Kendall, eds. 1997. American Fisheries Society, Bethesda, MD. 242p. (F/NEC).

Status of Fishery Resources off the Northeastern United States for 1998. S.H. Clark, ed. 1998. (NOAA-TM- NMFS-NE-115). 149 p. (F/NEC).

The History, Present Condition, and Future of the Molluscan Fisheries of North and Central America and Europe, 3 vols. MacKenzie, C.L., Jr., V.G. Burrell, Jr., and W.L. Hobart, eds. 1997. (NOAA-Tech. Rep-NMFS-NE-128) (F/NEC).

U.S. Atlantic Marine Mammal Stock Assessments — 1998. Waring, G.T., D.L. Palka, P.J. Clapham, S. Swartz, M.C. Rossman, T.V.N. Cole, K.D. Bisack, and L.J. Hansen, 1999. (NOAA-TM-NMFS-NE-116) 182p. (F/NEC).

SOUTHEAST REGION:

Habitat Protection Accomplishments of the National Marine Fisheries Service - Fiscal Year 1996. Habitat Conservation Division, Southeast Regional Office. 1996. 88 p.+Appen. (F/SER).

SOUTHWEST REGION:

Demonstration and Evaluation of the Streak Tube Imaging LIDAR For Use in Bycatch Reduction. Griffiths, Andrew J. (Administrative Report SWR-99-02) 104 p. (F/SWR).

Hawaiian Monk Seal Epidemiology Plan: Health Assessment and Disease Status Studies. Aguirre, A. A., J. S. Reif, and G. A. Antonelis. 1999. (NOAA-TM-NMFS-SWFSC-280). 69 p. (F/SWC).

The Kewalo Research Facility—leading the way for more than 40 years. Brill, R. W. (ed.). 1999. (NOAA-TM-NMFS-SWFSC-281). (F/SWC).

Long-Range Tuna School Detection Sonar System Design Specification, December 1997. Denny, Gerald F., Kenneth E. deVillerory, Patrick K. Simpson. (Administrative Report. SWR-98-01) 38 p. (F/SWR).

Marine Mammal Data Collected during a Survey in the Eastern Tropical Pacific Ocean aboard the NOAA Ships. McArthur and David Starr Jordan and the UNOLS Ship Endeavor July 31- December 9, 1998. Kinzey, D., T. Gerrodette, J. Barlow, A. Dizon, W. Perryman, P. Olson, and A. Von Saender. 1999. (NOAA-TM-NMFS-SWFSC-283). 113 p. (F/SWC).

Proceedings of the Second International Pacific Swordfish Symposium. DiNardo, G. T. (ed.). 1999. (NOAA-TM-NMFS-SWFSC-263). 246 p. (NTIS No. PB99-166357INZ). (F/SWC).

Recent Developments in Population Viability Analyses, with Specific Reference to Pacific Salmon. Spencer, P. 1999. (NOAA-TM-NMFS-SWFSC-261). 30 p. (NTIS No. PB99-155426INZ).

Sebastes moseri (Scorpaeniformes: Scorpaenidae): A New Rockfish from the Eastern North Pacific. Eitner, B., C. Kimbrell, and R. Vetter. 1999. Copeia 1999(1):85–92. (F/SWC).

Shark Fisheries, Trade, and Market of Japan. Sonu, Sunee C., 1998. 70 p. (NOAA-TM-NMFS-SWR-033) (F/SWR)

The State of the California Current in 1998-1999: Transition to Cool-water Conditions. Hayward, T. L., T. R. Baumgartner, D. M. Checkley, R. Durazo, G. Gaxiola-Castro, K. D. Hyrenbach, A. W. Mantyla, M. M. Mullin, T. Murphree, F. B. Schwing, P. E. Smith, and M. J. Tegner. 1999. Calif. Coop. Oceanic Fish. Invest. Rep. 40:29–62. (F/SWC).

Tuna Fisheries, Trade, and Market of Japan. Sonu, Sunee C., 1999. (NOAA-TM-NMFS-SWR-034) 121 p. (F/SWR)

U.S. Pacific Marine Mammal Stock Assessments: 1999. Forney, K. A., M. M. Muto, and J. Baker. 1999. (NOAA-TM-NMFS-SWFSC-282). 62 p. (F/SWC).

Status Review of Coastal Cutthroat Trout from Washington, Oregon, and California. Johnson, O.W., M.H. Ruckelshaus, W.S. Grant, F.W. Waknitz, A.M. Garrett, G.J. Bryant, K. Neely, and J.J. Hard. 1999. (NOAA-TM-NMFS-NWFSC-37) 292 p. (NTIS PB99-140469)

Status Review of Chinook Salmon from Washington, Idaho, Oregon, and California. Myers, J.M., R.G. Kope, G.J. Bryant, D. Teel, L.J. Liehr, T.C. Wainwright, W.S. Grant, F.W. Waknitz, K. Neely, S.T. Lindley, and R.S. Waples. 1998. (NOAA-TM-NMFS-NWFSC-35) 443 p. (NTIS PB98-128473).

Status Review of Sockeye Salmon from Washington and Oregon. Gustafson, R.G., T.C. Wainwright, G.A. Winans, F.W. Waknitz, L.T. Parker, and R.S. Waples. 1997. (NOAA-TM-NMFS-NWFSC-33) 282 p. (NTIS PB98-128861).

Status Review of Chum Salmon from Washington, Oregon, and California. Johnson, O.W., W.S. Grant, R.G. Kope, K. Neely, F.W. Waknitz, and R.S. Waples. 1997. (NOAA-TM-NMFS-NWFSC-32) 280 p. (NTIS PB98-128663).

ALASKA REGION:

Acoustic and Visual Detection of Large Whales in the Eastern North Pacific Ocean. Moore, S. E., M. E. Dahlheim, K. M. Stafford, C. G. Fox, H. W. Braham, M.A. McDonald, and J. Thomason. 1999. (NOAA-TM-AFSC-107). 27 p. (NTIS No. PB2000-101119).

Aerial and Land-based Surveys of Steller Sea Lions (*Eumetopias jubatus*) in Alaska, June and July 1997 and 1998. Sease, J. L., and T. R. Loughlin. 1999. (NOAA-TM-AFSC-100). 61 p. (NTIS No. PB99-140618)

Aerial and Land-based Surveys of Steller Sea Lions (*Eumetopias jubatus*) in Alaska, June and July 1996. Sease, J. L., J. M. Strick, R. L. Merrick, and J. P. Lewis. 1999. (NOAA-TM-AFSC-99). 43 p. (NTIS No. PB99-134462).

Alaska Marine Mammal Stock Assessments, 1999. Hill, P. S., and D. P. DeMaster. 1999. (NOAA-TM-AFSC-110). 166 p. NTIS number pending.

Alaska Marine Mammal Stock Assessments, 1998. Hill, P. S., and D. P. DeMaster. 1998. (NOAA-TM-AFSC-97). 166 p. (NTIS No. PB99-130791).

Catch-per-unit-effort, Length, and Depth Distributions of Major Groundfish and Bycatch Species in the Bering Sea, Aleutian Islands, and Gulf

of Alaska Regions Based on Groundfish Fishery Observer Data. Fritz, L. W., A. Grieg, and R. F. Reuter. 1998. (NOAA-TM-AFSC-88). 179 p. (NTIS No. PB98-139298).

Constructing Species Frequency Distributions - A Step Toward Systemic Management. Fowler, C. W., and M. A. Perez. 1999. (NOAA-TM-AFSC-109). 59 p. (NTIS No. PB2000-102552).

Distribution and Abundance of Zooplankton in the North Pacific Subarctic Frontal Zone and Adjacent Water Masses. Murphy, J. M., N. E. Maloney, and B. L. Wing. 1998. (NOAA-TM-AFSC-93). 31 p. (NTIS No. PB98-159163).

Economic Status of the Groundfish Fisheries off Alaska, 1996. Kinoshita, R. K., A. Greig, and J. M. Terry. 1998. (NOAA-TM-AFSC-85). 91 p. (NTIS No. PB98-126170).

Effect of Seawater Entry Date on 24-hour Plasma Sodium Concentration and Survival of Juvenile Spring Chinook Salmon (*Oncorhynchus tshawytscha*) Reared in Marine Net-pens. Thrower, F., R. Martin, and R. Heintz. 1998. (NOAA-TM-AFSC-94). 18 p. (NTIS No. PB98-173545).

Food of Flathead Sole *Hippoglossoides elassodon* in the Eastern Bering Sea. Pacunski, R. E., P. A. Livingston, and B. S. Miller. 1998. (NOAA-TM-AFSC-90). 27 p. (NTIS No. PB98-148679).

Food Habits of Some Commercially Important Groundfish off the Coasts of California, Oregon, Washington, and British Columbia. Buckley, T. W., G. E. Tyler, D. M. Smith, and P. A. Livingston. 1999. (NOAA-TM-AFSC-102). 173 p. (NTIS No. PB99-166563).

Fur Seal Investigations, 1997. Sinclair, E. H., and B. W. Robson (editors). 1999. (NOAA-TM-AFSC-106). 111 p. (NTIS No. PB2000-100223).

Guide to Rockfishes (Scorpaenidae) of the Genera *Sebastes*, *Sebastolobus*, and *Adelosebastes* of the Northeast Pacific Ocean. Orr, J. W., M. A. Brown, and D. C. Baker. 1998. (NOAA-TM-AFSC-95). 46 p. (NTIS No. PB99-114217).

The 1995 Pacific West Coast Bottom Trawl Survey of Groundfish Resources: Estimates of Distribution, Abundance, and Length and Age Composition. Wilkins, M. E., M. Zimmermann, and K. L. Weinberg. 1998. (NOAA-TM-AFSC-89). 138 p. plus Appendices. (NTIS No. PB98-136252).

Proceedings of the First Biennial Canada/U.S. Observer Program Workshop. McElderry, H., W. A. Karp, J. Twomey, M. Merklein, V. Cornish, and M. Saunders. 1999. (NOAA-TM-AFSC-101). 113 p. (NTIS No. PB99-146482).

Results of a Pilot Program to Document Interactions Between Sperm Whales and Longline Vessels in Alaska Waters. Hill, P. S., J. L. Laake, and E. Mitchell. 1999. (NOAA-TM-AFSC-108). 42 p. (NTIS No. PB2000-101118).

Surficial Sediments of the Eastern Bering Sea Continental Shelf: EBSED Database Documentation. Smith, K. R., and R. A. McConnaughey. 1999. (NOAA-TM-AFSC-104). 41 p. (NTIS No. PB2000-100938).

Survey of Juvenile Pacific Salmon in the Northern Region of Southeastern Alaska, May-October 1997. Murphy, J. M., A. L. J. Brase, and J. A. Orsi. 1999. (NOAA-TM-AFSC-105). 40 p. (NTIS No. PB99-175630).

Status Review of the Eastern North Pacific Stock of Gray Whales. Rugh, D. J., M. M. Muto, S.

E. Moore, and D. P. DeMaster. 1999. (NOAA-TM-AFSC-103). 93 p. (NTIS No. PB99-172678).

The 1997 Pacific West Coast Upper Continental Slope Trawl Survey of Groundfish Resources off Washington, Oregon, and California: Estimates of Distribution, Abundance, and Length Composition. Lauth, R. R. 1999. (NOAA-TM-AFSC-98). 284 p. (NTIS No. PB99-133043).

Seasonal Distributions of Atka Mackerel (*Pleurogrammus monopterygius*) in Commercially-fished Areas of the Aleutian Islands and Gulf of Alaska. Fritz, L. W., and S. A. Lowe. 1998. (NOAA-TM-AFSC-92). 29 p. (NTIS No. PB98-153703).

Some Size Relationships and Genetic Variability of Atlantic Salmon (*Salmo salar*) Escapees Captured in Alaska Fisheries, 1990-95. Wing, B. L., M. M. Masuda, C. M. Guthrie III, and J. H. Helle. 1998. (NOAA-TM-AFSC-96). 32 p. (NTIS No. PB99-118697).

Observations of Harbor Porpoise in the Vicinity of Acoustic Alarms on a Set Gill Net. Laake, J., D. Rugh, and L. Baraff. 1998. (NOAA-TM-AFSC-84). 40 p. (NTIS No. PB98-117641).

Time Series Analyses of Climatological Records from Auke Bay, Alaska. Wing, B. L., and J. J. Pella. 1998. (NOAA-TM-AFSC-91). 90 p. (NTIS No. PB98-149206).

To purchase the preceding reports listed
with NTIS, call or write:

NTIS -- ATTN: Order Desk
5285 Port Royal Road
Springfield, VA 22161

PHONE: 703-605-6000 (1-800-553-6847)

FAX: 703-605-6900

Internet Orders: <http://www.ntis.gov>

NATIONAL MARINE FISHERIES SERVICE HOME PAGES

The National Marine Fisheries Service provides information on programs and data available to the public and fishing industry via home page. Please use the following address for NMFS' home page - <http://www.nmfs.noaa.gov> through a personal computer. If you wish to access individual office home pages the addresses and a brief description follows:

Fisheries Statistics - <http://www.st.nmfs.gov/st1/> — Descriptions of commercial and recreational fisheries statistics data collection and economic programs. Access to commercial monthly landings data bases, Marine Recreational Fisheries Statistics Survey (MRFSS) data, cold storage, Market News Reports, processed products data, trade data base, vessel documentation data, and electronic copies of "Fisheries of the United States."

Atlantic Highly Migratory Species (HMS) - <http://www.nmfs.noaa.gov/sfa/hmspg.html> — HMS and Billfish Fishery Management Plans, implementing regulations and related documents. The Stock Assessment and Fishery Evaluation Report for HMS: SAFE2000. Information on Atlantic tunas permits and link to online permit shop. Lists of members of the Advisory Panels, upcoming meetings and other HMS news

Habitat Conservation - <http://www.nmfs.noaa.gov/habitat/> — Describes NOAA programs to conserve, protect, and restore habitats for living marine resources. Information on essential fish habitat, the NOAA Restoration Center and its Community-based Restoration Program, Damage Assessment and Restoration Program (DARP), and Coastal Wetlands Planning, Protection, and Restoration Act program (CWPPRA), and the NOAA Chesapeake Bay Office.

Inspection Program - <http://seafood.nmfs.noaa.gov> — Provides information on the voluntary National Seafood Inspection Program, including the services offered in the US and foreign countries to harvesters, processors, distributors, importers/exporters, buyers, and retailers; list of approved fish establishments and products; fees and charges; policies for advertising services; and official inspection marks and certificates.

Intergovernmental and Recreational Fisheries - <http://www.nmfs.noaa.gov/irf/irf.html> — Provides information on the Atlantic Coastal Fisheries Cooperative Management Act, the Atlantic Striped Bass Conservation Act, the Interjurisdictional Fisheries Act, the Anadromous Fisheries Conservation Act, and Executive Order 12962 - on Recreational fisheries.

Protected Resources - http://nmfs.noaa.gov/prot_res/prot_res.html — Contains recovery efforts for species considered endangered or threatened; depleted species of marine mammals; and a comprehensive list of other Internet resources pertaining to protection programs and other issues. Information on Endangered Species Act and Marine Mammal Protection Act.

Saltonstall-Kennedy Grant Program - <http://www.nmfs.noaa.gov/sfweb/skhome.html> — Description of the Saltonstall-Kennedy (S-K) Program, the most recent solicitation for proposals, application forms and instructions, FAQs, and Regional contacts for the S-K Program, as well as the latest update to the S-K Annotated Bibliography of completed projects.

Northeast Region - <http://www.nero.nmfs.gov/doc/nero.html> — Describes the mission and responsibilities of the Regional Office Staffs and Divisions. Provides information on northeast fisheries regulations, quota reports for specific species, multi-species preliminary statistics reports; scallop and multi-species days-at-sea activity reports; federal aid for MARFIN and SK grant programs; vessel permit system data; and links to other NOAA sites.

Northeast Fisheries Science Center - <http://www.nefsc.nmfs.gov> — Provides current and historical northeast fisheries information and data about research facilities, vessels, programs, publications, management, laws and regulations, and answers to frequently asked questions on fish and fisheries research. Features in-depth

NATIONAL MARINE FISHERIES SERVICE HOME PAGES

information on northeast stock status and realtime, at-sea, display of research vessel activities, measurements, and observations.

Southeast Region - <http://caldera.sero.nmfs.gov/> — Provides information on regional Federal activities including: fisheries regulations, news releases and fisheries bulletins, fisheries regulations, vessel and dealer permits, fishery management plan implementation/quotas, marine mammals and endangered species management and protection, habitat protection and restoration activities, and federal aid programs for grants and cooperative agreements.

Southeast Fisheries Science Center - <http://www.sefsc.noaa.gov/> — Describes the Center's programs, mission, laboratories, geographic scope, organization, research vessels, and upper-level scientific and management staff. Includes publications, news releases, newsletters (tuna and billfish), and information on the types of research being conducted on Pacific and Antarctic fishes, marine mammals, sea turtles, habitats, and marine ecosystems.

Alaska Region - <http://www.fakr.noaa.gov> — Provides information on in-season state of groundfish catch, current news releases and information bulletins, and current fisheries outlook and effort reports. Information on the Community Development Quota (CDQ) Program, At-Sea Scales Program, fisheries regulations and the manual for Groundfish Recordkeeping and Reporting. Information on the Individual Fishing Quota (IFQ) Program, marine mammals, habitat conservation, and links to other fisheries web sites.

Alaska Fisheries Science Center - <http://www.afsc.noaa.gov/> — Describes the mission of the Center and the organization and purpose of its laboratories, divisions, and programs dedicated to Federal fisheries and marine mammal research in the coastal oceans off Alaska and the West Coast of the United States. Provides stock assessments, databases, AFSC Quarterly Report, cruise reports and schedules, other online documents, publication lists, image gallery of marine mammals, fishes, and crabs, and educational materials.

Northwest Region - <http://www.nwr.noaa.gov> — Provides information on the region's activities, mission and responsibilities. It includes news releases, announcements, documents and Federal Register notices about fisheries management plans, public hearings, programs, regulations, Endangered Species Act listings and proposals, habitat conservation, and regional hydro power activities.

Northwest Fisheries Science Center - <http://research.nwfsc.noaa.gov/nwfsc-homepage.html> — Describes Center research, including status and recovery of endangered salmon and new hatchery-rearing techniques; rapid-response analyzes of chemical pollution and harmful algae blooms in fishery grounds nationwide; assessing the west coast groundfish fishery; and developing new bycatch utilization technologies. News topics, current publications, library resources, and the Center's state-of-the-art water-recycling fish culture facility are also featured.

Southwest Region - <http://swr.ucsd.edu> — Describes the mission and responsibilities of the regional office. Announcements of Federal Register notices on seasons, trip limits, and quotas. Provides information on fisheries statistics, trade data, canned tuna updates and status of tuna import quotas, and catch reports for various California fisheries. Japanese market reports are available on sablefish, shrimp, landings and wholesale prices, etc., and links to other pertinent sites of interest to fishery and seafood industries.

Southwest Fisheries Science Center - <http://swfsc.ucsd.edu> — Describes the Center's programs, mission, laboratories, geographic scope, organization, research vessels, and upper-level scientific and management staff. Includes publications, news releases, billfish newsletter, and information on the types of research being conducted on Pacific and Antarctic fishes, marine mammals, sea turtles, habitats, and marine ecosystems.

NOAA Public Affairs - <http://www.noaanews.noaa.gov> — All NOAA and NMFS related Press Releases and links to other NOAA material available to the public. If you would like these releases through electronic mail rather than FAX, send e-mail to jslaff@hq.noaa.gov.

SEA GRANT EXTENSION SERVICE

The Office of Sea Grant is a major program element of the National Oceanic and Atmospheric Administration. The National Sea Grant College Program is funded jointly by the Federal Government and colleges or universities. Sea Grant's Extension Service offers a broad range of information concerning the Nation's fisheries to recreational and commercial fishermen, fish processors, and others. The following program leaders, listed alphabetically by State, can provide information on Sea Grant activities:

Rick Wallace, Coordinator
Alabama Sea Grant Extension
Auburn University Marine
Extension & Research Center
4170 Commander's Drive
Mobile, AL 36615
(334) 438-5690 FAX: 438-5670

Donald E. Kramer, Extension/MAP Leader
Alaska Sea Grant College Program
2221 East Northern Lights #110
Anchorage, AK 99508
(907) 274-9691 FAX: 277-5242

Christopher M. DeWees, Coordinator
Sea Grant Extension Program
Department of Wildlife and Fisheries
University of California A5 - Davis
Davis, CA 95616
(916) 752-1497 FAX: 752-4154

Judith Doino Lemus, Extension Leader
Univ. of Southern California Sea Grant Program
Hancock Institute of Marine Studies, Univ. Park
Los Angeles, CA 90089
(213) 740-1965 FAX: 740-5936

Nancy Balcom, Interim Extension Leader
Sea Grant Extension Program
University of Connecticut
1084 Shennecossett Road
Groton, CT 06340
(860) 405-9107 FAX: 485-9109

James Falk, Extension Leader
Delaware Sea Grant College Prog.
Marine Advisory Service
700 Pilottown Road
Lewes, DE 19958
(302) 645-4235 FAX: 645-4213

Douglas Lipton, Extension Leader
Maryland Sea Grant College Program
2218B Symons Hall - Univ. of MD
College Park, MD 20742
(301) 405-1280 FAX: 314-9032

Cliff Goudey, Extension Leader
MIT Sea Grant College Program
E38-324 / Kendall Square
292 Main Street
Cambridge, MA 02139
(617) 253-7079 FAX: 258-5730

Marion L. Clarke, Leader
Florida Sea Grant Extension
University of Florida - Bldg. 803
P.O. Box 110405
Gainesville, FL 32611
(352) 392-1837 FAX: 392-5113

Keith Gates, Extension Leader
Georgia Sea Grant College Program
715 Bay Street
Brunswick, GA 31520
(912) 264-7268 FAX: 264-7312

Bruce J. Miller, Assoc. Dir.
Director, Extension / Pacific Programs,
Sea Grant Extension Service, Univ. of HI
1000 Pope Road, MSB 227
Honolulu, HI 96822
(808) 956-8645 FAX: 956-2858

Brian Miller, Extension Leader
Illinois/Indiana Sea Grant Program
Forestry & Natural Resources
Purdue University - Forestry Bldg.
West Lafayette, IN 47907
(912) 264-7268 FAX: 264-7312

Michael Liffman, Assist. Dir.
Louisiana Sea Grant College Program
Louisiana State University
136 Wetland Resources Building
Baton Rouge, LA 70803
(504) 388-6290 FAX: 388-6331

Ron Beard, Extension Leader
Maine Sea Grant College Program
21 Coburn Hall, Univ. Of ME
Orono, ME 04469
(207) 581-1440 FAX: 581-1423

Dale Leavitt, Extension Leader
WHOI Sea Grant Program
Mail Stop #2, Coastal Research Lab.
Woods Hole Oceanographic Institute
Woods Hole, MA 02543
(508) 289-2997 FAX: 457-2172

John Schwartz, Extension Leader
Michigan Sea Grant College Prog.
Michigan State University
334 Natural Resource Building
East Lansing, MI 48824
(517) 355-9637 FAX: 353-6496

SEA GRANT EXTENSION SERVICE

Jeffery Gunderson, Extension Leader
Minnesota Sea Grant
University of Minnesota - Duluth
208 Washburn Hall
Duluth, MN 55812
(218) 726-8715 FAX: 726-6556

David C. Veal, Extension Leader
Mississippi Sea Grant
Coastal Research/Extension Center
2710 Beach Blvd., Suite 1-E
Biloxi, MS 39531
(601) 338-4710 FAX: 388-1375

Brian E. Doyle, Extension Leader
New Hampshire Sea Grant
University of NH - Kingman Farm
Durham, NH 03824
(603) 749-1565 FAX: 743-3997

Eleanor Bochenek, Extension Leader
New Jersey Sea Grant College Program
Building #22
Fort Hancock, NJ 07732
(732) 872-1300 ext:31 FAX: 872-9573

Dale R. Baker, Extension Leader
New York Sea Grant
340 Roberts Hall - Cornell Univ.
Ithaca, NY 14853
(607) 255-2832 FAX: 255-2812

Frank Lichtkoppler, Co-Leader
Ohio Sea Grant Extension
Lake County Extension Office
99 East Erie Street
Painesville, OH 44077
(216) 350-2582 FAX: 350-5928

Frederic L. Snyder, Co-Leader
Ohio Sea Grant Extension
Camp Perry
Building 3, Room 12
Port Clinton, OH 43452
(419) 635-4117 FAX: 292-4364

Eric C. Obert, Coordinator
Pennsylvania Sea Grant Extension Project
Station Road
Erie, PA 16563
(814) 898-6420 FAX: 898-6462

Steve Olson, Extension Leader
Sea Grant - North Carolina State Univ.
105 1911 Building - Box 8605
Raleigh, NC 27695
(919) 515-2454 FAX 515-7095

Jay Rasmussen, Program Leader
Oregon Extension Sea Grant
Hatfield Marine Science Center

2030 S. Marine Science Drive
Newport, OR 97365
(541) 867-0368 FAX: 867-0369

Eric C. Obert, Extension Leader
Pennsylvania Sea Grant College Program
Station Road
Erie, PA 16563
(814) 898-6420 FAX: 898-6462

Ruperto Chaparro, Extension Leader
Sea Grant College Program
University of Puerto Rico
P.O. Box 5000
Mayaguez, PR 00681
(787) 832-8045 FAX: 265-2880

Kathy Castro, Extension Coordinator
Rhode Island Sea Grant Extension
Graduate School of Oceanography
South Ferry Road, Univ. of Rhode Island
Narragansett, RI 02882
(401) 874-6800 FAX: 789-8340

Bob Bacon, Extension Leader
South Carolina Sea Grant
Marine Extension Program
287 Meeting Street
Charleston, SC 29401
(803) 727-2075 FAX: 727-2080

Russell Miget, Acting Extension Coordinator
Texas Sea Grant College Program
6300 Ocean Drive, Suite 280
Corpus Christi, TX 78412
(512) 980-3460 FAX: 980-3465

Lawrence K. Forcier, Coordinator
Vermont Sea Grant Extension Project
University of Vermont
601 Main Street
Burlington, VT 05401
(802) 656-2980 FAX: 656-8642

Wm. D. DuPaul, Extension/MAP Coordinator
Virginia Sea Grant College Program - VIMS
Gloucester Point, VA 23062
(804) 684-7164 FAX: 684-7161

Michael S. Spranger, Extension Leader
Washington Sea Grant HG-30 - WA Univ.
3716 Brooklyn Avenue, N.E.
Seattle, WA 98105
(206) 685-9291 FAX: 685-0380

Allen H. Miller, Extension/MAS Leader
Wisconsin Sea Grant Institute - WS Univ.
201 Goodnight Hall - Madison Campus
1975 Willow Drive
Madison, WI 53706
(608) 262-0644 FAX: 263-0591

National Sea Grant Depository
(Clearinghouse for all Sea Grant Publications)
Pell Library - University of Rhode Island - Bay Campus
Narragansett, RI 02882
PHONE: 401-874-6114
FAX: 874-6160

ANADROMOUS SPECIES. These are species of fish that mature in the ocean, and then ascend streams to spawn in freshwater. In the Magnuson Act, these species include, but are not limited to, Atlantic and Pacific salmon, steelhead trout, and striped bass. See 42 FR 60682, Nov. 28, 1977.

ANALOG PRODUCTS. These include imitation and simulated crab, lobster, shrimp, scallops, and other fish and shellfish products fabricated from processed fish meat (such as surimi).

AQUACULTURE. The farming of aquatic organisms in marine, brackish or fresh water. Farming implies private or corporate ownership of the organism and enhancement of production by stocking, feeding, providing protection from predators, or other management measures. Aquaculture production is reported as the weight and value of cultured organisms at their point of final sale.

BATTER-COATED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a batter containing a leavening agent and mixture of cereal products, flavoring, and other ingredients, and partially cooked in hot oil a short time to expand and set the batter.

BOAT, OTHER. Commercial fishing craft not powered by a motor, e.g., rowboat or sailboat, having a capacity of less than 5 net tons. See motorboat.

BREADED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a non-leavened mixture containing cereal products, flavorings, and other ingredients. Breaded products are sold raw or partially cooked.

BREADED SHRIMP. Peeled shrimp coated with breading. The product may be identified as fantail (butterfly) and round, with or without tail fins and last shell segment; also known as portions, sticks, steaks, etc., when prepared from a composite unit of two or more shrimp pieces whole shrimp or a combination of both without fins or shells.

BUTTERFLY FILLET. Two skin-on fillets of a fish joined together by the belly skin. See fillets.

CANNED FISHERY PRODUCTS. Fish, shellfish, or other aquatic animals packed in cans, or other containers, which are hermetically sealed and heat-sterilized. Canned fishery products may include milk, vegetables, or other products. Most, but not all,

canned fishery products can be stored at room temperature for an indefinite time without spoiling.

COMMERCIAL FISHERMAN. An individual who derives income from catching and selling living resources taken from inland or marine waters.

CONSUMPTION OF EDIBLE FISHERY PRODUCTS. Estimated amount of commercially landed fish, shellfish, and other aquatic animals consumed by the civilian population of the United States. Estimates are on an edible-weight basis and have been adjusted for beginning and ending inventories of edible fishery products. Consumption includes U.S. production of fishery products from both domestically caught and imported fish, shellfish, other edible aquatic plants, animals, and imported products and excludes exports and purchases by the U.S. Armed Forces.

CONTINENTAL SHELF FISHERY RESOURCES. These are living organisms of any sedentary species that at the harvestable stage are either (a) immobile on or under the seabed, (b) unable to move except in constant physical contact with the seabed or subsoil of the continental shelf. The Magnuson Act now lists them as certain abalones, surf clam and ocean quahog, queen conch, Atlantic deep-sea red crab, dungeness crab, stone crab, king crabs, snow (tanner) crabs, American lobster, certain corals, and sponges.

CURED FISHERY PRODUCTS. Products preserved by drying, pickling, salting, or smoking; not including canned, frozen, irradiated, or pasteurized products. Dried products are cured by sun or air-drying; pickled or salted products are those products preserved by applying salt, or by pickling (immersing in brine or in a vinegar or other preservative solution); smoked products are cured with smoke or a combination of smoking and drying or salting.

DEFLATED VALUE. The deflated values referred to in this document are calculated with the Gross Domestic Products Implicit Price Deflator. The base year for this index is 1987.

EDIBLE WEIGHT. The weight of a seafood item exclusive of bones, offal, etc.

EEZ. See U.S. Exclusive Economic Zone.

EL NINO. This anomalous ocean warming of the eastern Equatorial Pacific occurs at time intervals

varying from 2-10 years. El Nino conditions result in an accumulation of warm water off South America which reduced the upwelling of nutrient-rich water necessary to support fisheries production. These conditions extended northward to the U.S. Pacific Coast. In addition to affecting the food available for fish, El Nino appears to alter the normal ranges, distributions, and migrations of fish populations.

EUROPEAN UNION. Austria, Belgium and Luxembourg, Denmark, Federal Republic of Germany, Finland, Greece, France, Ireland, Italy, Netherlands, Portugal, Spain, Sweden, and United Kingdom.

EXPORT VALUE. The value reported is generally equivalent to f.a.s. (free alongside ship) value at the U.S. port of export, based on the transaction price, including inland freight, insurance, and other charges incurred in placing the merchandise alongside the carrier at the U.S. port of exportation. The value excludes the cost of loading, freight, insurance, and other charges or transportation cost beyond the port of exportation.

EXPORT WEIGHT. The weight of individual products as exported, i.e., fillets, steaks, whole, breaded, etc. Includes both domestic and foreign re-exports data.

EXVESSEL PRICE. Price received by the harvester for fish, shellfish, and other aquatic plants and animals.

FISH BLOCKS. Regular fish blocks are frozen blocks or slabs of fillets or pieces of fillets cut or sliced from fish. Minced fish blocks are frozen blocks or slabs of minced flesh produced by a meat and bone separating machine.

FISH FILLETS. The sides of fish that are either skinned or have the skin on, cut lengthwise from the backbone. Most types of fillets are boneless or virtually boneless; some may be labeled as "boneless fillets."

FISH MEAL. A high-protein animal feed supplement made by cooking, pressing, drying, and grinding fish or shellfish.

FISH OIL. An oil extracted from body (body oil) or liver (liver oil) of fish and marine mammals; mostly a byproduct of fish meal production.

FISH PORTION. A piece of fish flesh that is generally of uniform size with thickness of 3/8 of an inch or more and differs from a fish stick in being

wider or of a different shape. A fish portion is generally cut from a fish block.

FISH SOLUBLES. A water-soluble protein byproduct of fish meal production. Fish solubles are generally condensed to 50 percent solids and marketed as "condensed fish solubles."

FISH STEAK. A cross-section slice cut from a large dressed fish. A steak is usually about 3/4 of an inch thick.

FISH STICK. An elongated piece of breaded fish flesh weighing not less than 3/4 of an ounce and not more than 1-1/2 ounces with the largest dimension at least three times that of the next largest dimension. A fish stick is generally cut from a fish block.

FISHERY MANAGEMENT PLAN (FMP). A plan developed by a Regional Fishery Management Council, or the Secretary of Commerce under certain circumstances, to manage a fishery resource in the U.S. EEZ pursuant to the MFCMA (Magnuson Act).

FISHING CRAFT, COMMERCIAL. Boats and vessels engaged in capturing fish, shellfish, and other aquatic plants and animals for sale.

FULL-TIME COMMERCIAL FISHERMAN. An individual who receives more than 50 percent of their annual income from commercial fishing activities, including port activity, such as vessel repair and re-rigging.

GROUND FISH. Broadly, fish that are caught on or near the sea floor. The term includes a wide variety of bottom fishes, rockfishes, and flatfishes. However, NMFS sometimes uses the term in a narrower sense. In "Fisheries of the United States," the term applies to the following species--Atlantic and Pacific: cod, hake, ocean perch, and pollock; cusk; and haddock.

IMPORT VALUE. Value of imports as appraised by the U.S. Customs Service according to the Tariff Act of 1930, as amended. It may be based on foreign market value, constructed value, American selling price, etc. It generally represents a value in a foreign country, and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise to the United States.

IMPORT WEIGHT. The weights of individual products as received, i.e., fillets, steaks, whole, headed, etc.

INDUSTRIAL FISHERY PRODUCTS. Items processed from fish, shellfish, or other aquatic plants and animals that are not consumed directly by humans. These items contain products from seaweeds, fish meal, fish oils, fish solubles, pearl essence, shark and other aquatic animal skins, and shells.

INTERNAL WATER PROCESSING (IWP). An operation in which a foreign vessel is authorized by the governor of a state to receive and process fish in the internal waters of a state. The Magnuson Act refers to internal waters as all waters within the boundaries of a state except those seaward of the baseline from which the territorial sea is measured.

JOINT VENTURE. An operation authorized under the MFCMA (Magnuson Act) in which a foreign vessel is authorized to receive fish from U.S. fishermen in the U.S. EEZ. The fish received from the U.S. vessel are part of the U.S. harvest.

LANDINGS, COMMERCIAL. Quantities of fish, shellfish, and other aquatic plants and animals brought ashore and sold. Landings of fish may be in terms of round (live) weight or dressed weight. Landings of crustaceans are generally on a live-weight basis except for shrimp which may be on a heads-on or heads-off basis. Mollusks are generally landed with the shell on, but for some species only the meats are landed, such as sea scallops. Data for all mollusks are published on a meat-weight basis.

MAGNUSON-STEVENS FISHERY CONSERVATION AND MANAGEMENT ACT, Public Law 94-265, as amended. The Magnuson-Stevens Act provides a national program for the conservation and management of fisheries to allow for an optimum yield (OY) on a continuing basis and to realize the full potential of the Nation's fishery resources. It established the U.S. Exclusive Economics Zone (EEZ) (formerly the FCZ - Fishery Conservation Zone) and a means to control foreign and certain domestic fisheries through PMPs and FMPs. Within the U.S. EEZ, the United States has exclusive management authority over fish (meaning finfish, mollusks, crustaceans, and all other forms of marine animal and plant life other than marine mammals, birds, and highly migratory species of tuna). The Magnuson Act provides further exclusive management authority beyond the U.S. EEZ for all continental shelf fishery resources and all anadromous species throughout the migratory range of each such species, except during

the time they are found within any foreign nation's territorial sea or fishery conservation zone (or the equivalent), to the extent that such a sea or zone is recognized by the United States.

MARINE RECREATIONAL FISHING. Fishing for pleasure, amusement, relaxation, or home consumption.

MARINE RECREATIONAL CATCH. Quantities of finfish, shellfish, and other living aquatic organisms caught, but not necessarily brought ashore, by marine recreational fisherman.

MARINE RECREATIONAL FISHERMEN. Those people who fish in marine waters primarily for recreational purposes. Their catch is primarily for home consumption, although occasionally a part or all of their catch may be sold and enter commercial channels. This definition is used in the NMFS Marine Recreational Fishery Statistics Survey, and is not intended to represent a NMFS policy on the sale of angler-caught fish.

MAXIMUM SUSTAINABLE YIELD (MSY). MSY from a fishery is the largest annual catch or yield in terms of weight of fish caught by both commercial and recreational fishermen that can be taken continuously from a stock under existing environmental conditions. A determination of MSY, which should be an estimate based upon the best scientific information available, is a biological measure necessary in the development of optimum yield.

METRIC TONS. A measure of weight equal to 1,000 kilograms, 0.984 long tons, 1.1023 short tons, or 2,204.6 pounds.

MOTORBOAT. A motor-driven commercial fishing craft having a capacity of less than 5 net tons, or not officially documented by the Coast Guard. See "boat, other".

NORTHWEST ATLANTIC FISHERIES ORGANIZATION (NAFO). This convention, entered into force January 1, 1979, replaces ICNAF. NAFO provides a forum for continued multilateral scientific research and investigation of fishery resources that occur beyond the limits of coastal nations' fishery jurisdiction in the northwest Atlantic, and will ensure consistency between NAFO management measures in this area and those adopted by the coastal nations within the limits of their fishery jurisdiction.

OPTIMUM YIELD (OY). In the MFCMA (Magnuson Act), OY with respect to the yield from a fishery, is the amount of fish that (1) will provide the greatest overall benefit to the United States, with particular reference to food production and recreational opportunities; and (2) is prescribed as such on the basis of maximum sustainable yield from such fishery, as modified by any relevant ecological, economic, or social factors.

PART-TIME COMMERCIAL FISHERMAN. An individual who receives less than 50 percent of their annual income from commercial fishing activities.

PER CAPITA CONSUMPTION. Consumption of edible fishery products in the United States divided by the total civilian population. In calculating annual per capita consumption, estimates of the civilian resident population of the United States on July 1 of each year are used. These estimates are taken from current population reports, series P-25, published by the U.S. Bureau of the Census.

PER CAPITA USE. The use of all fishery products, both edible and nonedible, in the United States divided by the total population of the United States.

PRELIMINARY FISHERY MANAGEMENT PLAN (PMP). The Secretary of Commerce prepares a PMP whenever a foreign nation with which the United States has made a Governing International Fishery Agreement (GIFA) submits an application to fish in a fishery not managed by an FMP. A PMP is replaced by an FMP as soon as the latter is implemented. A PMP applies only to foreign fishing.

RE-EXPORTS. Re-exports are commodities which have entered the U.S. as imports and are subsequently exported in substantially the same condition as when originally imported.

RETAIL PRICE. The price of fish and shellfish sold to the final consumer by food stores and other retail outlets.

ROUND (LIVE) WEIGHT. The weight of fish, shellfish, or other aquatic plants and animals as taken from the water; the complete or full weight as caught. The tables on world catch found in this publication include, in the case of mollusks, the weight of both the shells and the meats, whereas the tables on U.S. landings include only the weight of the meats.

SURIMI. Minced fish meat (usually Alaska pollock) which has been washed to remove fat and undesirable matters (such as blood, pigments, and odorous substances), and mixed with cryoprotectants, such as sugar and/or sorbitol, for a good frozen shelf life.

TOTAL ALLOWABLE LEVEL OF FOREIGN FISHING (TALFF). The TALFF, if any, with respect to any fishery subject to the exclusive fishery management authority of the United States, is that portion of the optimum yield of such fishery which will not be harvested by vessels of the United States, as determined by provisions of the MFCMA.

U.S. EXCLUSIVE ECONOMIC ZONE (EEZ). The MSFCMA (Magnuson-Stevens Act) defines this zone as contiguous to the territorial sea of the United States and extending seaward 200 nautical miles measured from the baseline from which the territorial sea is measured. This was formerly referred to as the FCZ (Fishery Conservation Zone).

U.S.-FLAG VESSEL LANDINGS. Includes landings by all U.S. fishing vessels regardless of where landed as opposed to landings at ports in the 50 United States. These include landings at foreign ports, U.S. territories, and foreign vessels in the U.S. FCZ under joint venture agreements. U.S. law prohibits vessels constructed or registered in foreign countries to land fish catches at U.S. ports.

U.S. TERRITORIAL SEA. A zone extending 3 nautical miles from shore for all states except Texas and the Gulf Coast of Florida where the seaward boundary is 3 marine leagues (9 nautical miles)

USE OF FISHERY PRODUCTS. Estimated disappearance of the total supply of fishery products, both edible and nonedible, on a round-weight basis without considering beginning or ending stocks, exports, military purchases, or shipments to U.S. territories.

VESSEL. A commercial fishing craft having a capacity of 5 net tons or more. These craft are either enrolled or documented by the U.S. Coast Guard and have an official number assigned by that agency.

WHOLESALE FISH AND SHELLFISH PRICES. Those prices received at principal fishery markets by primary wholesalers (processors, importers, and brokers) for customary quantities, free on board (f.o.b.) warehouse.

Statistical Subject Index

AQUACULTURE

Production 23

CLAMS

Aquaculture, 23

Canned, 53

Exports, 68, 82

Frozen holdings, 58, 59

Imports, 61, 82

Landings, 3, 12, 18, 82

Supply, 82

Value of landings, 3, 12, 18

COLD STORAGE

Holdings, monthly, 56-59

CONSUMPTION

Canned, 86, 87

Cured, 86

Fillets and steaks, 87

Fresh and frozen, 86

Per capita, U.S., 86

Per capita, use, 90

Salmon, canned, 87

Sardines, canned, 87

Shellfish, canned, 87

Shrimp, 87

Sticks and portions, 87

Tuna, canned, 87

World, 88

CRABS

Canned, 53, 80

Exports, 68, 73, 80

Frozen holdings, 58, 59

Imports, 61, 82

Landings, 4, 12, 18, 21, 22

Supply, 80

Value of landings, 4, 12, 18, 21, 22

World catch, 47

CRAFT FISHING

Number, by region and state, 94

DISPOSITION OF LANDINGS

United States, 5

World, 49

EMPLOYMENT

Processors and wholesalers, 95

Region and State, 95

EXPORTS

All fishery products, 68

Crabs, 68, 73

Crabmeat, 68, 73

Continent and country, by, 70

Cured, 68

Edible, by years, 69

Fish meal, 68, 74, 84

Herring, 68

Nonedible, by years, 69

Oils, 68, 74, 84

Principal items, 68

Salmon, canned, 68, 72, 79

Salmon, whole or eviscerated, 68, 72

Sardines, canned, 68, 79

Shrimp, canned, 68, 83

Shrimp, domestic and foreign products, 71, 83

Shrimp, fresh and frozen, 68, 71

Snow (tanner) crab, 80

Value, by years, 69

Volume, by years, 69

World, by country, 49

FLOUNDERS

Fillets, 52

Frozen holdings, 56, 57

Landings, 1, 8, 14

Value of landings, 1, 8, 14

GROUND FISH FILLETS AND STEAKS

Exports, 68

Fillets, supply, 77

Imports, 61, 77

HALIBUT

Fillets and steaks, 52

Frozen holdings, 56, 57

Landings, 1, 9, 15

Value of landings, 1, 9, 15

HERRING, SEA

Canned (sardines), 53

Consumption (sardines), per capita, 87

Landings, 1, 9, 15

Exports (sardines), 68

Imports (sardines), 61

Value of landings, 1, 9, 15

World catch, 47

IMPORTS

All fishery products, 61, 62

Blocks and slabs, 61, 64

Clams, canned, 61

Continent and country, by, 63

Crabmeat, canned, fresh and frozen, 61, 80

Cured, 61

Edible, 61, 62, 63, 76, 77

Fillets, groundfish, 61, 64, 77

Fillets, other than groundfish and ocean perch, 61

Finfish, 69

Groundfish, 61, 64, 77

Herring, canned, 61

Industrial, 76, 77

Lobsters, canned, 61

Lobsters, fresh and frozen, 61

Meal and scrap, 61, 67

Nonedible, 61, 62, 63

Oils, 61, 84

Oysters, canned, 61

Principal items, 61

Quota, canned tuna, not in oil, 65

Salmon, canned, 61, 79

Salmon, fresh and frozen, 61

Sardines, canned, 61, 79

Scallop meats, 61, 82

Shellfish, 76

Shrimp, by country, 66

Shrimp, by products, 67

Tuna, canned, 61, 65, 79

Tuna, fresh and frozen, 61, 79

Value, by years, 62

Volume, by year, 62

World, by country, 49

LANDINGS

Disposition, 5

Foreign shores, off, 8, 14

Human food (edible), 5

Industrial, 5

Months, by, 5

Ports, major U.S., 7

Record year, by states, 6

Species, 1, 8, 14

State and region, current, 6

Territory, 20

U.S. shores, distance from, 8, 14

World, 47, 48, 49

Statistical Subject Index

LOBSTERS, AMERICAN

Imports, 61, 81
Landings, 4, 12, 18, 81
Supply, 81
Value of landings, 4, 12, 18

LOBSTER, SPINY

Frozen holdings, 58, 59
Imports, 61, 81
Landings, 4, 12, 18, 21, 22, 81
Supply, 81
Value of landings, 4, 12, 18, 21, 81

MACKERELS

Landings, 2, 9, 15, 20
Value of landings, 2, 9, 15, 20
World catch, 47

MAGNUSON FISHERY

CONSERVATION AND

MANAGEMENT ACT (MFCMA)

Fishery Management Plan, 97
General description, 96
Optimum yield by species, 99
Permits, foreign fishing, 96
Regional Fishery Management
Councils, 98

MEAL AND SCRAP

Exports, 68, 74
Imports, 61, 67
Production, U.S., 55
Supply, 83
World disposition, 49

MENHADEN

Landings, 2, 9, 15
Value of landings, 2, 9, 15

OIL

Exports, 68, 83
Imports, 61, 83
Production, 55
Supply, 83
World disposition, 49

OYSTERS

Aquaculture, 23
Canned, 53
Imports, 61, 82
Landings, 4, 12, 18, 21, 23
Supply, 82
Value of landings, 4, 12, 18, 21, 23
World catch, 47

PLANTS AND FIRMS

Employment, 95
Processors and wholesalers, 95

PRICES

Exvessel index, 93

PROCESSING

Animal food and bait, canned, 51, 54
Canned products, 53, 54, 68
Clams, canned, 53
Crabs, canned, 53, 80
Employment in, 95
Fillets and steaks, fresh
and frozen, 52
Frozen holdings, 56-59
Industrial products, 55
Meal, oil, 51, 55
Oysters, canned, 53
Plants, number of, 95
Salmon canned, 53
Sardines, canned, 53
Shrimp, canned, 53
Sticks, portions, and
breaded shrimp, 51

RECREATIONAL FISHERIES

Harvest by species, 29
Harvest by species and by fishing
mode, 32
Harvest by species and by distance
from shore, 36
Harvest and live releases by year, 40
Harvest and live releases by state, 45
MRFSS, program description, 26
Number of anglers by state, 46
Number of fishing trips by state, 46
Statistical survey coverage, 28
Statistical data types/definitions, 26

SALMON

Aquaculture, 23
Canned, 53, 79

SALMON

Consumption, per capita, 87
Exports, 68, 72
Fillets and steaks, 52
Frozen holdings, 56, 58
Imports, 61
Landings, 2, 10, 16
Supply, canned, 79

SALMON

Value of landings, 2, 10, 16
World catch, 47

SARDINES

Canned, 53, 79
Consumption, per capita, 87
Exports, 68, 79
Imports, 61, 68
Landings, 2, 10, 16
Supply, canned, 79
World catch, 47

SCALLOPS

Exports, 68, 82
Imports, 61, 82
Landings, 4, 13, 19
Supply, 82
Value of landings, 4, 13, 19
World catch, 47

SHRIMP

Aquaculture, 23
Breaded, 51
Canned, 53, 61, 83
Consumption, per capita, 87
Exports, 70, 71, 83
Frozen holdings, 58, 59
Imports, 61, 66, 67, 83
Landings, head-off, 83
Landings, head-on, 4, 13, 19, 21
Supply, canned, 83
Supply, total, 83
Value of landings, 4, 13, 19, 21
World catch, 47

SUPPLY

All fishery products, 75, 76
Clam meats, 82
Crabs, 80
Crabmeat, 80
Edible fishery products, 75, 76
Fillets and steaks, all, 77
Fillets and steaks, groundfish, 77
Finfish, 76
Industrial Products, 75, 76
Lobster, American, 81
Lobster, spiny, 81
Meal, 84
Oil, 84
Oysters, 82
Salmon, canned, 79

Statistical Subject Index

SUPPLY

Sardines, canned, 79
Scallop meats, 82
Shellfish, 76
Shrimp, 83
Tuna, 78

SWORDFISH

Landings, 3, 11, 17, 22
Value of landings, 3, 11, 17, 22

TUNA

Canned, 53, 61, 65, 79
Consumption, per capita, 88
Exports, 68
Fresh and Frozen, 78
Imports, 61, 65, 79
Landings, 3, 11, 17, 21, 22

TUNA

Quota, imports, canned, 65
Supply, canned, 79
Value of landings, 3, 11, 17,
21, 22
World catch, 47

USE

Per capita, 90
Landings, by month, 5
Valued added, 91

WHITING

Frozen holdings, 56, 57
Landings, 1, 9, 15
Value of landings, 1, 9, 15

WORLD FISHERIES

Acquaculture, 47
Catch by countries, 48
Catch by major fishing areas, 48
Catch by species groups, 47
Catch by year, 47
Catch by water type, 47, 48
Consumption, 88
Disposition, 49
Imports and exports value, 49

Federal Inspection Marks for Fishery Products

NATIONAL FISHERY PRODUCTS INSPECTION PROGRAM. The U.S. Department of Commerce (USDC), National Marine Fisheries Service, a part of the National Oceanic and Atmospheric Administration, conducts a voluntary seafood inspection program on a fee-for-service basis. A HACCP-based service is also available. Services provided by the program include vessel and plant sanitation, product inspection and grading, label reviews, product specification reviews, laboratory analyses, training, education and information. Inspection and certification services are available nationwide and in U.S. territories for all interested parties. Consultative services are provided in foreign countries. Inspection and certification services are also provided for imported and exported products. The USDC Seafood Inspection Division also provides HACCP training, plan development, implementation assistance, and verification service to industry (domestic and foreign) for the purpose of demonstrating compliance with FDA's HACCP rule (21 CFR Parts 123 and 1240) regarding "Procedures for the Safe and Sanitary Processing and Importing of Fish and Fishery Products" which was implemented December 18, 1997.

USERS OF INSPECTION SERVICES. The users of the voluntary seafood inspection service include vessel owners, processors, distributors, brokers, retailers, food service operators, exporters, importers, and those who have a financial interest in buying and selling seafood products. The U.S. Department of Agriculture recommends that USDC inspected products be purchased for its food feeding programs. The **USDC APPROVED LIST OF FISH ESTABLISHMENTS AND PRODUCTS**, published bi-annually, provides a listing of products and participants who contract with USDC.

USDC INSPECTION MARKS. These marks designate the level and the type of inspection performed by the federal inspector. The marks can be used in advertising and labeling under the guidelines provided by the Seafood Inspection Division and in accordance with federal and state regulations regarding advertising and labeling. Products bearing the USDC official marks have been certified as being safe, wholesome, and properly labeled.

"US GRADE A" MARK. The U.S. GRADE A mark signifies that a product has been processed under federal inspection in an approved facility and meets the established level of quality of an existing U.S. grade standard. The U.S. Grade A mark indicates that the product is of high quality, uniform in size, practically free from blemishes and defects, in excellent condition and possessing good flavor and odor.

"PROCESSED UNDER FEDERAL INSPECTION" MARK. The PUFi mark or statement signifies that the product has been inspected in an approved facility and was found to be safe, wholesome and properly labeled according to approved specifications or criteria. The language within the PUFi mark has been amended to "Processed Under Federal Inspection" to reflect actual inspection procedures and the regulatory requirements for use of the mark.

"LOT INSPECTED" MARK. A new USDC Lot Inspected mark was created to replace the "Officially Sampled" and "Accepted Per Specifications" lot inspection marks used on retail labels. The latter marks were no longer allowed/accepted after September 30, 1997. The use of the new mark meets the needs of both industry and consumers by conveying that the products bearing the mark have been examined by the USDC Program.

"RETAIL" MARK. In response to requests made by industry, a new mark has been created for retail or food service establishments. Participants qualify for use of the "Retail Mark" by receiving the USDC HACCP-based service or being under contract for sanitation services and associated product evaluation. Usage of such a mark will give the retail industry the opportunity to advertise on their banners, logos, or menus that their facility has been recognized by USDC for proper sanitation and handling of fishery products.



USDC HACCP MARK. The USDC HACCP-based service is available to all interested parties on a fee-for-service basis. Label approval, record keeping and analytical testing are program requirements. An industry USDC-certified employee trained in HACCP principles is also required for each facility/site in the program. Compliance ratings determine frequency of official visits. Benefits to participants include increased controls through a more scientific approach, use of established marks, increased efficiency of federal inspection personnel, and enhanced consumer confidence. The USDC has made available a HACCP mark and a "banner" to distinguish products that have been produced under the HACCP-based program. The HACCP banner must be used as an attachment to existing inspection grade marks. Establishments meeting HACCP program requirements may use these marks in conjunction with promotional material, packaging, point-of-sale notices, and menus.

FOR FURTHER INFORMATION:

U.S. Department of Commerce, NOAA/NMFS

Seafood Inspection Division - F/SF6

1315 East-West Highway

Silver Spring, MD 20910

(301) 713-2355 (FAX: 713-1081)

Toll Free: 1-800-422-2750

Internet: <http://seafood.ssp.nmfs.gov/iss/issue.html>

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service, F/ST1
1315 East West Highway -
Silver Spring, MD 20910-3282

40

OFFICIAL BUSINESS

Current Fishery Statistics No. 2000

Fisheries of the United States, 2000

August 2001



U.S. DEPARTMENT
OF COMMERCE

National Oceanic and
Atmospheric Administration

National Marine
Fisheries Service

Fisheries **of the** **United States** **2000**

National Marine Fisheries Service
Office of Science and Technology
Fisheries Statistics and Economics Division

Mark C. Holliday, Chief

Barbara K. O'Bannon, Editor

Silver Spring, Maryland

August 2001



U.S. DEPARTMENT OF COMMERCE

Donald L. Evans, Secretary

National Oceanic and Atmospheric Administration

Scott B. Gudes, Acting Under Secretary

National Marine Fisheries Service

William T. Hogarth, Acting Assistant Administrator

Preface

FISHERIES OF THE UNITED STATES, 2000

This publication is a preliminary report for 2000 on commercial and recreational fisheries of the United States with landings from the U.S. territorial seas, the U.S. Exclusive Economic Zone (EEZ), and on the high seas. This annual report provides timely answers to frequently asked questions.

SOURCES OF DATA

Information in this report came from many sources. Field offices of the National Marine Fisheries Service (NMFS), with the generous cooperation of the coastal states, collected and compiled data on U.S. commercial landings and processed fishery products.

The NMFS Fisheries Statistics and Economics Division in Silver Spring, MD, managed the collection and compilation of recreational statistics, in cooperation with various States and Interstate Fisheries Commissions, and tabulated and prepared all data for publication. Sources of other data appearing in this publication are: U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Coast Guard, U.S. Customs Service, U.S. Department of the Interior, U.S. Department of Agriculture, and the Food and Agriculture Organization (FAO) of the United Nations.

PRELIMINARY AND FINAL DATA

Data on U.S. commercial landings, employment, prices, production of processed products, and recreational catches are preliminary for 2000. Final data will be published in other NMFS Current Fishery Statistics publications.

The Fisheries Statistics and Economics Division of NMFS takes this opportunity to thank states, industry, and foreign nations who provided the data that made this publication possible. Program leaders of the field offices were: Gregory Power, Bob Morrill and Gene Steady for the New England, Middle Atlantic, and Chesapeake states; Scott Nelson, National Biological Service Science Center, Great Lakes States; Linda Hardy, Guy Davenport, and Maggie Bourgeois for the South Atlantic and Gulf States; Patricia J. Donley, California and Hawaii; John K. Bishop, Oregon and Washington; and David Ham assisting Gary Christofferson of the Pacific State Marine Fisheries Commission for Alaska.

NOTES

The time series of U.S. catch by species and distance from shore included in this year's "Fisheries of the U.S." is estimated by the National Marine Fisheries Service.

As in past issues of this publication, the units of quantity and value are defined as follows unless otherwise noted: U.S. landings are shown in round weight (except mollusks which are in meat weight); quantities shown for U.S. imports and exports are in product weight, as reported by the U.S. Bureau of the Census; the value of the U.S. domestic commercial landings is exvessel; in the Review Section on important species, deflated exvessel prices are shown. The deflated value was computed using the Gross Domestic Products Implicit Price Deflator using a base year 1992; the value for U.S. imports is generally the market value in the foreign (exporting) country and, therefore, excludes U.S. import duties, freight charges from the foreign country to the United States, and insurance; the value for exports is generally the value at the U.S. port of export, based on the selling price, including inland freight, insurance, and other charges. Countries and territories shown in the U.S. foreign trade section are established for statistical purposes in the Tariff Schedules of the United States Annotated (International Trade Commission) and reported by the U.S. Bureau of the Census.

SUGGESTIONS

The Fisheries Statistics and Economics Division wishes to provide the kinds of data sought by users of fishery statistics, and welcomes comments or suggestions that will improve this publication.

Address all comments or questions to:

Fisheries Statistics and Economics Division, (F/ST1)
National Marine Fisheries Service, NOAA
1315 East-West Highway - Rm. 12340
Silver Spring, MD 20910-3282
PHONE: 301-713-2328 / FAX: 301-713-4137
HOMEPAGE: <http://www.st.nmfs.gov/st1/>

Members of the Fisheries Statistics and Economics Division in Silver Spring who helped with this publication were: Daryl Bullock, Tina Chang, Vicky Cornish, Rita Curtis, Terri DeLloyd, Josanne Fabian, Karen Foster, Amy Gautam, Brad Gentner, Laurie Hamilton, Dennis Hansford, John Hoey, Deborah Hogans, Mark Holliday, Steven Koplin, Alan Lowther, Sharon Newman, Barbara O'Bannon, Maury Osborn, Elizabeth Pritchard, Tom Sminkey, David Sutherland, Glen Taylor, Margaret Toner, William Uttley, David Van Voorhees, John Ward, and Lelia Wise.

Contents

PREFACE AND ACKNOWLEDGMENT	ii
REVIEW	iv
U. S. COMMERCIAL FISHERY LANDINGS:	
Species	1
Disposition	5
Regions and states	6
Ports	7
Catch by species and distance-from-shore (thousand pounds)	8
Catch by species and distance-from-shore (metric tons)	14
U.S. Landings for territorial possessions	20
U.S. Aquaculture production, estimated 1994-99	23
U.S. MARINE RECREATIONAL FISHERIES:	
Harvest by species	29
Harvest by mode of fishing and species group ..	32
Harvest by distance-from-shore and species group	36
Harvest and total live releases by species group	40
Finfish harvest and releases by state	45
Number of anglers and trips by state	46
WORLD FISHERIES:	
Aquaculture and commercial catch	47
Species groups	47
Countries	48
Fishing areas	48
Imports and exports, by leading countries	49
U. S. PRODUCTION OF PROCESSED FISHERY PRODUCTS:	
Value	51
Fish sticks, fish portions, and breaded shrimp ...	51
Fillet and steaks	52
Canned	53
Industrial	55
U. S. COLD STORAGE HOLDINGS	56
U. S. IMPORTS:	
Principal items	61
Edible and nonedible	62
Continent and country	63
Blocks	64
Groundfish fillets and steaks, species	64
Canned tuna and quota	65
Shrimp, country of origin	66
Shrimp, by product type	67
Industrial	67
U. S. EXPORTS:	
Principal items	68
Edible and nonedible	69
Continent and country	70
Shrimp	71
Lobsters	71
Salmon	72
Surimi	72
Crab	73
Crabmeat	73
Industrial	74
U. S. SUPPLY:	
Edible and nonedible	75
Finfish and shellfish	76
All fillets and steaks	77
Groundfish fillets and steaks	77
Tuna, fresh and frozen	78
Canned sardines	79
Canned salmon	79
Canned tuna	79
King crab	80
Snow (tanner) crab	80
Canned crabmeat	80
Lobster, American	81
Lobster, spiny	81
Clams	82
Oysters	82
Scallops	82
Shrimp	83
Industrial	84
PER CAPITA:	
U.S. Consumption	86
Canned products	87
Certain items	87
World, by region and country	88
U.S. Use	90
VALUE ADDED	91
PRICES, INDEX OF EXVESSEL	93
EMPLOYMENT, CRAFT, AND PLANTS	94
FISHERY PRODUCTS INSPECTION	96
MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT OF 1976 (MFCMA):	
General	97
Optimum yield, U.S. capacity, reserve, and allocations	100
GENERAL ADMINISTRATIVE INFORMATION - NATIONAL MARINE FISHERIES SERVICE	
Administrative Offices	102
Region Offices	104
Statistical Port Agents	106
PUBLICATIONS:	
NOAA Library Services	108
Government Printing Office	108
National Marine Fisheries Service — National Technical Information Service	109
SERVICES:	
National Marine Fisheries Service: NMFS HomePages	116
Sea Grant Marine Advisory	118
Inspection	Inside back cover
GLOSSARY	120
INDEX	124

U.S. LANDINGS

Commercial landings (edible and industrial) by U.S. fishermen at ports in the 50 states were 9.1 billion pounds or 4.1 million metric tons valued at \$3.5 billion in 2000—a decrease of 270.0 million pounds (down 3 percent) and an increase of \$82.4 million (up 2 percent) compared with 1999. Finfish accounted for 85 percent of the total landings, but only 45 percent of the value. The 2000 average exvessel price paid to fishermen was 39 cents compared to 37 cents in 1999.

Catches of Alaska pollock, Pacific whiting and other Pacific groundfish that are processed at-sea aboard U.S. vessels in the northeastern Pacific are credited as “landings” to the state nearest to the area of capture. Information on landing port or percentage of catch transferred to transport ships for delivery to foreign ports is unavailable. These at-sea processed fishery products, on a round (live) weight basis, exceeded 1.0 million metric tons in 2000 and comprised almost 25 percent of the total domestic landings in the 50 states

Commercial landings by U.S. fishermen at ports outside the 50 states along with Internal Water Processing (IWP) agreements (see glossary) provided an additional 290.3 million pounds (131,700 metric tons) valued at \$88.9 million. This was a decrease of 31 percent, or 132.2 million pounds (60,000 metric tons) in quantity and \$46.0 million (34 percent) in value compared with 1999. Most of these landings consisted of halibut, sea herring and tuna landed in Canada, American Samoa and other foreign ports.

Edible fish and shellfish landings in the 50 states were 6.9 billion pounds (3.1 million metric tons) in 2000—an increase of 80.0 million pounds (36.3 million metric tons) compared with 1999.

Landings for reduction and other industrial purposes were 2.2 billion pounds (978,400 metric tons) in 2000—a decrease of 14 percent compared with 1999.

The 2000 U.S. marine recreational finfish catch (including fish kept and fish released (discarded)) on the Atlantic, Gulf, and Pacific coasts was an estimated 429.4 million fish taken on an estimated 75.3 million fishing trips. The harvest (fish kept or released dead) was estimated at 184.5 million fish weighing 254.2 million pounds.

WORLD LANDINGS

In 1999, the most recent year for which data are available, world commercial fishery landings and aquaculture were 126.2 million metric tons—an increase of 8.4 million metric tons (up 7 percent) compared with 1997.

China was the leading nation with 31.7 percent of the total harvest; Peru, second with 6.7 percent; Japan, third with 4.7 percent; India, fourth with 4.2 percent; and Chile, fifth with 4.2 percent. The United States ranked sixth with 4.1 percent in 1999.

PRICES

The 2000 annual exvessel price index for edible fish increased by 4 percent, shellfish increased by 1 percent, and industrial fish remained unchanged when compared with 1999. Exvessel price indices increased for 13 of the 33 species groups being tracked, decreased for 16 species groups, were unchanged for three species groups, and weren't available for one species. The snow crab price index had the largest increase (108 percent) while the coho salmon price index showed the largest decrease (44 percent).

PROCESSED PRODUCTS

The estimated value of the 2000 domestic production of edible and nonedible fishery products was \$7.2 billion, \$95.2 million less than in 1999. The value of edible products was \$6.7 billion—an increase of \$2.5 million compared with 1999. The value of industrial products was \$510.1 million in 2000—a decrease of \$97.6 million compared with 1999.

FOREIGN TRADE

The total import value of edible and nonedible fishery products was \$19.0 billion in 2000—an increase of \$2.0 billion compared with 1999. Imports of edible fishery products (product weight) were 4.0 billion pounds (1.8 million metric tons) valued at \$10.1 billion in 2000—an increase of 90.3 million pounds and \$1.0 billion compared with 1999. Imports of nonedible (i.e., industrial) products were \$8.9 billion—an increase of \$928.2 million compared with 1999.

Total export value of edible and nonedible fishery products was \$10.9 billion in 2000—an increase of \$892.1 million compared with 1999. United States firms exported 2.2 billion pounds (985,400 metric tons) of edible products valued at \$3.0 billion—an increase of 211.4 million pounds, and \$116.3 million compared with 1999. Exports of nonedible products were valued at \$7.9 billion, \$775.8 million more than 1999.

SUPPLY

The U.S. supply of edible fishery products (domestic landings plus imports, round weight equivalent, minus exports) was 10.1 billion pounds (4.6 million metric tons) in 2000—a decrease of 192.6 million pounds (2 percent) compared with 1999. The supply of industrial fishery products was 1.4 billion pounds (647.7 million metric tons) in 2000—a decrease of 410.1 million pounds (22 percent) compared with 1999.

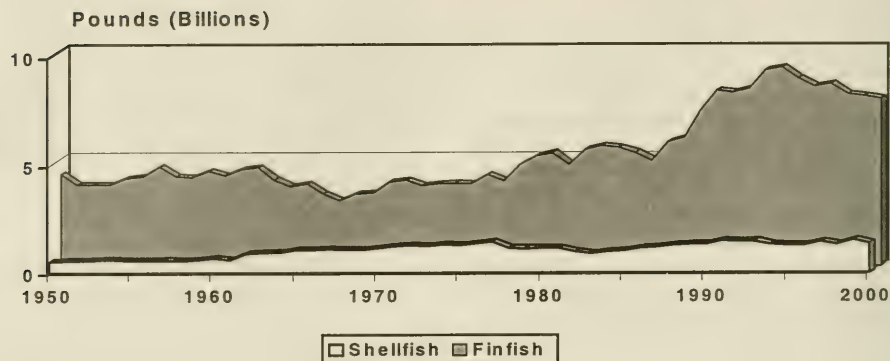
PER CAPITA CONSUMPTION

U.S. consumption of fishery products was 15.6 pounds of edible meat per person in 2000, up 0.2 pound from the revised 1999 per capita consumption of 15.4 pounds.

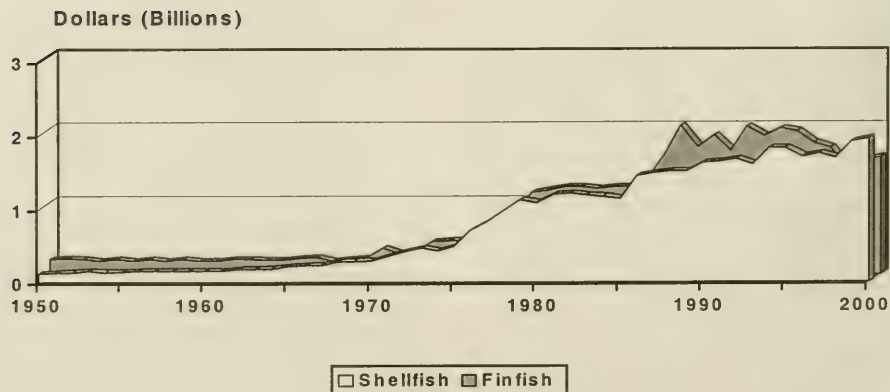
CONSUMER EXPENDITURES

U.S. consumers spent an estimated \$54.4 billion for fishery products in 2000. The 2000 total includes \$38.0 billion in expenditures at food service establishments (restaurants, carry-outs, caterers, etc.); \$16.1 billion in retail sales for home consumption; and \$317.8 million for industrial fish products. By producing and marketing a variety of fishery products for domestic and foreign markets, the commercial marine fishing industry contributed \$27.8 billion (in value added) to the U.S. Gross National Product.

Volume of Domestic Finfish and Shellfish Landings 1950 - 2000



Value of U.S. Domestic Finfish and Shellfish Landings 1950 - 2000



Alaska led all states in volume with landings of 4.5 billion pounds, followed by Louisiana, 1.3 billion; California, 641.2 million pounds; Virginia, 443.2 million; and Washington, 380.2 million.

Alaska led all states in value of landings with \$957.0 million, followed by Louisiana, \$401.1 million; Massachusetts, \$288.3 million; Maine, \$275.1 million; and Texas, \$232.4 million.

Dutch Harbor-Unalaska, Alaska, was the leading U.S. port in quantity of commercial fishery landings, followed by: Cameron, Louisiana; Empire-Venice, Louisiana; Reedville, Virginia; and Intercoastal City, Louisiana.

New Bedford, Massachusetts was the leading U.S. port in terms of value, followed by: Dutch Harbor-Unalaska, Alaska; Kodiak, Alaska; Dulac-Chauvin, Louisiana; and Empire-Venice, Louisiana.

Tuna landings by U.S.-flag vessels at ports outside the continental United States amounted to 285.9 million pounds. Halibut also were landed at ports outside the United States.

Major U.S. Domestic Species Landed in 2000 Ranked By Quantity and Value (Numbers in thousands)

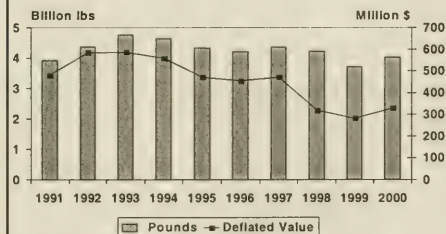
Rank	Species	Pounds	Rank	Species	Dollars
1	Pollock	2,615,715	1	Shrimp	690,453
2	Menhaden	1,760,498	2	Crabs	405,006
3	Salmon	628,635	3	Lobsters	334,226
4	Cod	555,565	4	Salmon	270,213
5	Hakes	489,665	5	Cod	168,714
6	Flounders	412,723	6	Pollock	167,553
7	Shrimp	322,486	7	Scallops	164,739
8	Squid	317,028	8	Clams	153,973
9	Crabs	299,006	9	Halibut	143,826
10	Herring (sea)	235,104	10	Menhaden	112,403

ALASKA POLLOCK AND OTHER PACIFIC TRAWL FISH

U.S. landings of Pacific trawl fish (Pacific cod, flounders, hake, Pacific ocean perch, Alaska pollock, and rockfishes) were 4.0 billion pounds valued at \$385.7 million—an increase of 8 percent in quantity and 20 percent in value compared with 1999.

Landings of Alaska pollock increased 12 percent to 2.6 billion pounds and were almost identical to their 1995 - 1999 5 - year average. Landings of Pacific cod were 530.5 million pounds — an increase of 1 percent from 524.0 million pounds in 1999. Pacific hake (whiting) landings were 452.7 million pounds (down 5 percent) valued at \$18.8 million (up 1 percent) compared to 1999. Landings of rockfishes were 50.0 million pounds (down 21 percent) and valued at \$23.4 million (down 23 percent) compared to 1999. The 2000 rockfish landings were 65 percent lower than the 5-year average.

Trend in Commercial Landings, 1991 - 2000
Alaska Pollock, Other Pacific Trawl Fish



ANCHOVIES

U.S. landings of anchovies were 25.3 million pounds—an increase of 13.6 million pounds (116 percent) compared with 1999. Ten percent of all landings were used for animal food or reduction and 90 percent were used for bait. We import all edible anchovies.

HALIBUT

U.S. landings of Atlantic and Pacific halibut were 75.2 million pounds (round weight) valued at \$143.8 million—a decrease of 5.1 million pounds (6 percent), and an increase of \$19.1 million (15 percent) compared with

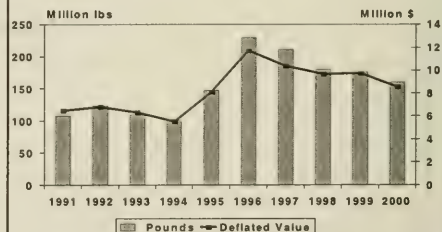
1999. The Pacific fishery accounted for all but 25,000 pounds of the 2000 total halibut catch. The average exvessel price per pound in 2000 was \$1.91 compared with \$1.55 in 1999.

HERRING, SEA

U.S. commercial landings of sea herring were 235.1 million pounds valued at \$22.0 million—a decrease of 31.4 million pounds (12 percent), and a decrease of \$4.1 million (16 percent) compared with 1999. Landings of Atlantic sea herring were 160.3 million pounds valued at \$10.0 million—a decrease of 15.2 million pounds (9 percent), and \$1.1 million (10 percent) compared with 1999.

Landings of Pacific sea herring were 74.8 million pounds valued at \$12.0 million—a decrease of 16.2 million pounds (18 percent), and \$2.9 million (20 percent) compared with 1999. Alaska landings accounted for 91 percent of the Pacific coast with 68.0 million pounds valued at \$9.6 million—a decrease of 17.3 million pounds (20 percent), and \$3.2 million (25 percent) compared with 1999.

Trend in Commercial Landings, 1991 - 2000
Atlantic Sea Herring



JACK MACKEREL

California accounted for 86 percent, Oregon for 12 percent, and Washington for 2 percent of the U.S. landings of jack mackerel in 2000. Total landings were 2.9 million pounds valued at \$247,000—an increase of 441,000 pounds (18 percent), and \$48,000 (24 percent) compared with 1998. The 2000 average exvessel price per pound was 9 cents.

MACKEREL, ATLANTIC

U.S. landings of Atlantic mackerel were 12.5 million pounds valued at \$2.0 million—a decrease of 14.1 million pounds (53 percent) and \$1.6 million (43 percent) compared with 1999. New Jersey with 9.6 million pounds and Rhode Island with 1.9 million pounds accounted for 93 percent of the total landings. The average exvessel price per pound increased to 16 cents in 2000 when compared to 13 cents in 1999.

MACKEREL, CHUB

Landings of chub mackerel were 47.1 million pounds valued at \$2.8 million—an increase of 27.8 million pounds (145 percent) and \$1.7 million (161 percent) compared with 1999. California accounted for 99 percent of total landings. The average exvessel price per pound was 6 cents, unchanged from 1999.

MENHADEN

The U.S. menhaden landings were 1.8 billion pounds valued at \$112.4 million—a decrease of 228.6 million pounds (11 percent) and \$679,000 (1 percent) compared with 1999. Landings decreased by 1.9 million pounds (less than 1 percent) in the Atlantic states, and by 226.7 million pounds (15 percent) in the Gulf states compared with 1999. Landings along the Atlantic coast were 456.6 million pounds valued at \$31.7 million. Gulf region landings were 1.3 billion pounds valued at \$80.7 million.

Menhaden are used primarily for the production of meal, oil, and solubles, while small quantities are used for bait.

NORTH ATLANTIC TRAWL FISH

Landings of butterfish, Atlantic cod, cusk, flounders (winter/blackback, summer/fluke, yellowtail and other), haddock, red and white hake, ocean perch, pollock and whiting (silver hake) in the North Atlantic (combination of New England, Middle Atlantic, and Chesapeake Regions) were 144.2 million pounds valued at \$135.4 million—an increase of 11.6 million pounds (9 percent), and \$4.6 million (4 percent) compared with 1999. Of these species, flounder led in total value in the North Atlantic, accounting for 41 percent of the total; followed by whiting, 19 percent; and cod, 17 percent.

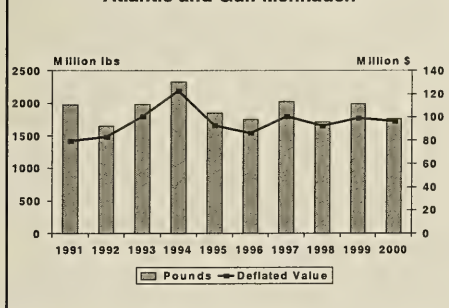
The 2000 landings of Atlantic cod were 25.1 million pounds valued at \$26.4 million—an increase of 3.6 million pounds (17 percent) and \$2.4 million (10 percent) compared with 1999. The exvessel price per pound was \$1.05 cents in 2000, down from \$1.12 per pound in 1999.

Landings of yellowtail flounder were 15.3 million pounds—an increase of 5.5 million pounds (56 percent) from 1999, and about 127 percent higher than its 5-year average.

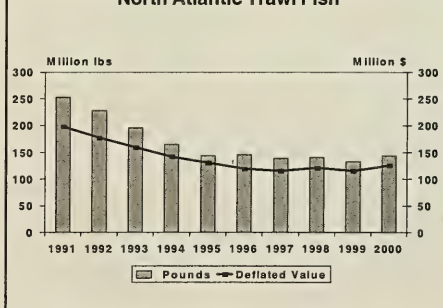
Haddock landings increased to 8.8 million pounds (27 percent) and \$11.6 million (27 percent) compared to 1999.

North Atlantic pollock landings were 8.9 million pounds valued at \$7.0 million—a decrease of 1.2 million pounds (12 percent), and \$1.4 million (17 percent) compared with 1999.

Trend in Commercial Landings, 1991 - 2000
Atlantic and Gulf Menhaden



Trend in Commercial Landings, 1991 - 2000
North Atlantic Trawl Fish



PACIFIC SALMON

U.S. commercial landings of salmon were 628.6 million pounds valued at \$270.2 million—a decrease of 186.2 million pounds (23 percent) and \$89.6 million (25 percent) compared with 1999. Alaska accounted for 96 percent of total landings; Washington, 2 percent; California, Oregon, and Great Lakes accounted for 2 percent of the catch. Sockeye salmon landings were 208.2 million pounds valued at \$159.6 million—a decrease of 36.2 million pounds (15 percent) and \$73.7 million (32 percent) compared with 1999. Chinook salmon landings increased to 16.1 million pounds—up 823,000 pounds (5 percent) from 1999. Pink salmon landings were 208.2 million pounds—a decrease of 173.9 million (46 percent); chum salmon landings were 162.3 million—an increase of 18.4 million (13 percent); and coho salmon increased to 33.8 million—an increase of 4.6 million pounds (16 percent) compared with 1999.

Alaska landings were 606.7 million pounds valued at \$246.6 million—a decrease of 195.0 million pounds (24 percent) and \$101.1 million (29 percent) compared with 1999. The distribution of Alaska salmon landings by species in 2000 was: pink, 208.2 million pounds (33 percent); sockeye, 204.9 million pounds (33 percent); chum, 159.3 million pounds (25 percent); coho, 29.1 million pounds (5 percent); and chinook, 5.2 million pounds (1 percent). The average price per pound for all species in Alaska was 41 cents in 2000—a decrease of 2 cents from 1999.

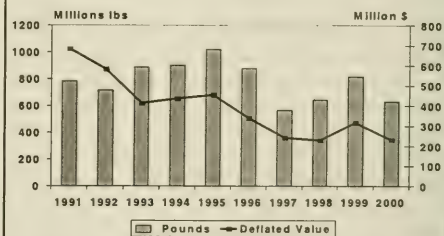
Washington salmon landings were 12.2 million pounds valued at \$9.1 million—an increase of 5.2 million pounds (74 percent), and \$4.6 million (102 percent) compared with 1999. The biennial fishery for pink salmon went from 203,000 pounds in 1999 to 2,000 pounds in 2000. Washington landings of coho salmon were 3.7 million pounds (up 115 percent); followed by sockeye, 3.2 million pounds (up 2,532 percent); chum 3.1 million pounds (up 20 percent); and chinook salmon 2.3 million pounds (down 8 percent). The average exvessel price per pound for all species in Washington increased from 65 cents in 1999 to 75 cents in 2000.

Oregon salmon landings were 3.1 million pounds valued at \$4.0 million—an increase of 1.6 million pounds (102 percent) and \$2.0 million (98 percent) compared with 1999. Chinook salmon landings were 2.1 million pounds

valued at \$3.4 million; coho landings were 1.0 million pounds valued at \$586,000; chum landings were 4,000 pounds valued at \$1,000; and sockeye landings were only 1,000 pounds valued at \$2,000. The average exvessel price per pound for chinook salmon in Oregon increased from \$1.53 in 1999 to \$1.65 in 2000.

California salmon landings were 5.8 million pounds valued at \$10.2 million—an increase of 1.4 million pounds (32 percent) and \$2.7 million (37 percent) compared with 1999. Only landings of chinook and coho salmon were reported for the State. The average exvessel price per pound paid to fishermen in 2000 was \$1.74 compared with \$1.68 in 1999.

Trend in Commercial Landings, 1991 - 2000
Pacific Salmon



SABLEFISH

U.S. commercial landings of sablefish were 49.7 million pounds valued at \$101.2 million—an increase of 1.4 million pounds (3 percent) and \$4.0 million (4 percent) compared with 1999. Landings increased in Alaska to 35.6 million pounds—an increase of 7 percent compared with 1999. Landings decreased in Washington to 3.8 million pounds (down 7 percent) but increased in value to \$6.6 (up 15 percent). The 2000 Oregon catch was 6.2 million pounds (down 5 percent), but increased in value to \$9.2 million (up 19 percent) compared with 1999. California landings of 4.1 million pounds and \$5.2 million represent a 5 percent decrease in quantity and a 21 percent increase in value from 1999. The average exvessel price per pound in 2000 was \$2.04 compared with \$2.01 in 1999.

TUNA

Landings of tuna by U.S. fishermen at ports in United States, American Samoa, other U.S. territories, and foreign ports were 336.7 million pounds valued at \$180.0 million—a decrease of 143.7 million pounds (30 percent), and a decrease of \$40.8 million (18 percent) compared with 1999. The average exvessel price per pound of all species of tuna in 2000 was 53 cents compared with 46 cents in 1999.

Bigeye landings in 2000 were 12.6 million pounds—a decrease of 2.6 million pounds (17 percent) compared with 1999. The average exvessel price per pound was \$2.15 in 2000 compared with \$1.82 in 1999.

Skipjack landings were 214.8 million pounds—a decrease of 118.8 million pounds (36 percent) compared with 1999. The average exvessel price per pound was 25 cents in 2000, compared to 31 cents in 1999.

Yellowfin landings were 75.6 million pounds—a decrease of 20.6 million pounds (21 percent) compared with 1999. The average exvessel price per pound was 70 cents in 2000 compared with 50 cents in 1999.

Bluefin landings were 3.2 million pounds—an increase of 478,000 pounds (18 percent) compared with 2000. The average exvessel price per pound in 2000 was \$5.98 compared with \$5.79 in 1999.

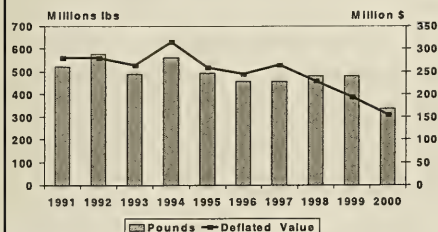
CLAMS

Landings of all species yielded 118.5 million pounds of meats valued at \$154.0 million—an increase of 6.3 million pounds (6 percent), and \$18.9 million (14 percent) in value compared with 1999. The average exvessel price per pound in 2000 was \$1.30 compared with \$1.20 in 1999.

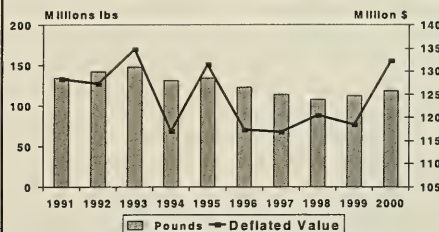
Surf clams yielded 68.5 million pounds of meats valued at \$38.0 million—an increase of 9.7 million pounds (17 percent) and \$7.6 million (25 percent) compared with 1999. New Jersey was the leading state with 58.0 million pounds (up 18 percent), followed by New York, 5.6 million pounds (up 14 percent) and Maryland, 4.2 million pounds (up 12 percent) compared with 1999. The average exvessel price per pound of meats was 53 cents in 2000, up 3 cents from 1999.

The ocean quahog fishery produced 32.8 million pounds of meats valued at \$17.0 million—a decrease of 5.9 million pounds (15 percent) and \$1.6 million (8 percent) compared with 1999. New Jersey had landings of 14.8 million pounds (down 12 percent) valued at \$6.4 million (down 11 percent) while Massachusetts production was 12.4 million pounds (down 25 percent) valued at \$5.2 million (down 24 percent). Together, New Jersey and Massachusetts accounted for 83 percent of total ocean

Trend in Commercial Landings, 1991 - 2000
Tuna (U.S. and Foreign Ports)



Trend in Commercial Landings, 1991 - 2000
Clams



quahog production in 2000. The average exvessel pound of meats increased from 48 cents in 1999 to 52 cents in 1999.

The hard clam fishery produced 11.2 million pounds of meats valued at \$53.8 million—an increase of 2.8 million pounds (33 percent) and \$9.0 million (20 percent) compared with 1999. Landings in the New England region were 5.4 million pounds of meats (up 125 percent); Middle Atlantic, 4.0 million pounds (down 12 percent); Chesapeake, 513,000 pounds (down 23 percent); and the South Atlantic region, 1.2 million pounds (up 70 percent). The average exvessel price per pound of meats decreased from \$5.34 in 1999 to \$4.81 in 1999.

Soft clams yielded 2.7 million pounds of meats valued at \$11.6 million—an increase of 25,000 pounds (1 percent), but a decrease of \$793,000 (6 percent) compared with 1999. Maine was the leading state with 2.3 million pounds of meats (up 1 percent), followed by New York with 181,000 pounds (down 21 percent), and Maryland with 169,000 pounds (up 48 percent). The average exvessel price per pound of meats was \$4.33 in 2000, compared with \$4.67 in 1999.

CRABS

Landings of all species of crabs were 299.0 million pounds valued at \$405.0 million—a decrease of 159.3 million pounds (35 percent), and \$116.2 million (22 percent) compared with 1999.

Hard blue crab landings were 177.2 million pounds valued at \$135.6 million—a decrease of 19.3 million pounds (10 percent), and \$14.8 million (10 percent) compared with 1999. Louisiana landed 29 percent of the total U.S. landings followed by: North Carolina, 22 percent; Virginia, 15 percent; and Maryland, 12 percent. Hard blue crab landings in the Chesapeake region were 48.2 million pounds—a decrease of 24 percent; the South Atlantic with 53.5 million pounds decreased 25 percent; and the Gulf region with 66.7 million pounds increased 29 percent. The Middle Atlantic region with 8.9 million pounds valued at \$9.8 million had a decrease of 1.4 million pounds (13 percent) compared with 1999. The average exvessel price per pound of hard blue crabs was 77 cents in 2000, unchanged from the price reported in 1999.

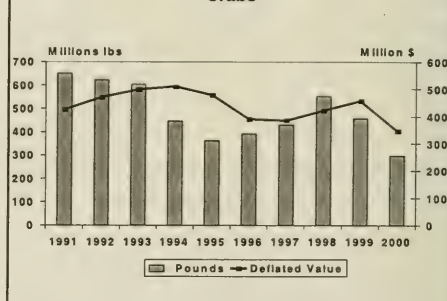
Dungeness crab landings were 37.7 million pounds valued at \$79.0 million—an increase of 2.3 million pounds (6 percent) and \$7.9 million (11 percent) compared with 1999. Washington landings of 17.6 million pounds (up 66 percent) led all states with 47 percent of

the total landings. Oregon landings were 11.0 million pounds (down 11 percent) or 29 percent of the total landings. California landings were 6.4 million pounds (down 26 percent) and Alaska landings were 2.8 million pounds (down 29 percent) compared with 1999. The average exvessel price per pound was \$2.09 in 2000 compared with \$2.01 in 1999.

U.S. landings of king crab were 15.1 million pounds valued at \$61.6 million—a decrease of 1.8 million pounds (11 percent), and a decrease of \$26.4 million (30 percent) compared with 1999. The average exvessel price per pound in 2000 was \$4.08 compared with \$5.21 in 1999.

Snow and Tanner crab landings were 34.5 million pounds valued at \$64.5 million—a decrease of 147.7 million pounds (81 percent), and a decrease of \$101.2 million (61 percent) compared with 1999. A biological survey of snow (Opilio) crabs indicated a significant decline (63 percent) in biomass of large males. In

Trend in Commercial Landings, 1991 - 2000
Crabs



response, the snow crab season in Alaska's Bering Sea was open for only 7 days in April of 2000. During this limited open season, 240 vessels caught about 32.8 million pounds of snow crabs valued at \$60.5 million. The average exvessel price per pound was \$1.87 cents in 2000, up from 91 cents in 1999.

LOBSTER, AMERICAN

American lobster landings were 83.2 million pounds valued at \$301.3 million—a decrease of 4.3 million pounds (5 percent) and \$21.7 million (7 percent) compared with 1999. Maine led in landings for the 19th consecutive year with 57.2 million pounds valued at

\$187.7 million—an increase of 3.7 million pounds (7 percent) compared with 1999. Massachusetts, the second leading producer, had landings of 14.6 million pounds valued at \$67.4 million—a decrease of 920,000 pounds (6 percent) compared with 1999. Together, Maine and Massachusetts produced 86 percent of the total national landings. The average exvessel price per pound was \$3.62 in 2000, compared with \$3.69 in 1999.

LOBSTERS, SPINY

U.S. landings of spiny lobster were 6.5 million pounds valued at \$32.9 million—a decrease of 231,000 pounds (3 percent) but an increase of \$3.2 million (11 percent) compared with 1999. Florida, with landings of 5.7 million pounds valued at \$27.6 million, accounted for 88 percent of the total catch and 84 percent of the value. This was a decrease of 394,000 pounds (7 percent), but an increase of \$2.5 million (10 percent) compared with 1999. Overall the average exvessel price per pound was \$5.09 in 2000 compared with \$4.45 in 1999.

OYSTERS

U.S. oyster landings yielded 41.1 million pounds of meats valued at \$90.7 million—an increase of 14.2 million pounds (52 percent) and \$18.0 million (25 percent) compared with 1999. The Gulf region led in production with 27.5 million pounds of meats, 67 percent of the national total; followed by the Pacific region with 9.5 million pounds (23 percent), principally Washington, with 8.3 million pounds (87 percent of the region's total volume); and the Chesapeake region with 2.5 million pounds (6 percent). The average exvessel price per pound of meats was \$2.20 in 2000 compared with \$2.69 in 1999.

SCALLOPS

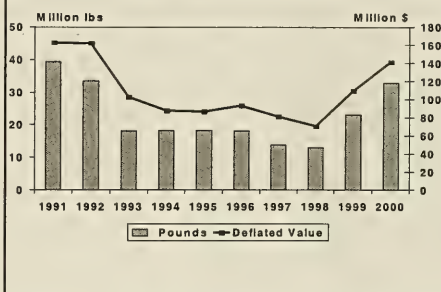
U.S. landings of bay and sea scallops totaled 32.8 million pounds of meats valued at \$164.7 million—an increase of 9.8 million pounds (42 percent) and \$39.3 million (31 percent) compared with 1999. The average exvessel price per pound of meats decreased from \$5.44 in 1999 to \$5.02 in 2000.

Bay scallop landings were 25,000 pounds of meats valued at \$130,000—a decrease of 10,000 pounds (29 percent) and \$51,000 (28 percent) compared with 1999. The average exvessel price per pound of meats was \$5.20 in 2000 compared with \$5.17 in 1999.

Calico scallops landings in 2000 were confidential and cannot be publicly released.

Sea scallop landings were 32.7 million pounds of meats valued at \$164.6 million—an increase of 9.7 million pounds (42 percent) and \$39.3 million (31 percent)

Trend in Commercial Landings, 1991 - 2000
Atlantic Sea Scallops

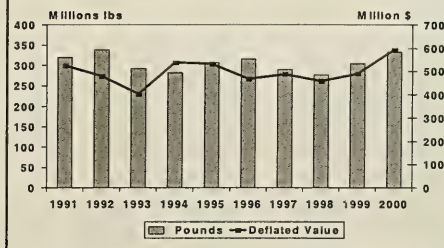


compared with 1999. Massachusetts and Virginia were the leading states in landings of sea scallops with 16.2 and 9.2 million pounds of meats, respectively, representing 77 percent of the national total. The average exvessel price per pound of meats in 2000 was \$5.03 compared with \$5.44 in 1999.

SHRIMP

U.S. landings of shrimp were 332.5 million pounds valued at 690.5 million—an increase of 28.3 million pounds (9 percent) and \$130.0 million (23 percent) in value compared with 1999. Shrimp landings increased in

Trend in Commercial Landings, 1991 - 2000
Shrimp



all regions: New England up 41 percent; South Atlantic up 7 percent; Gulf up 9 percent and Pacific up 13 percent. The average exvessel price per pound of shrimp increased to \$2.08 in 2000 compared with \$1.84 in 1999. Gulf region landings were the nation's largest with 256.6 million pounds and 77 percent of the national total. Louisiana led all Gulf states with 133.4 million pounds (up 12 percent); followed by Texas, 73.8 million pounds (up 5 percent); Alabama, 19.9 million pounds (up 13 percent); Mississippi, 14.8 million pounds (up 2 percent); and Florida (West Coast), 14.8 million pounds (down 5 percent). In the Pacific region, Oregon had landings of 25.6 million pounds (up 25 percent); Washington had landings of 5.4 million pounds (up 31 percent); and California had 4.8 million pounds (down 26 percent); compared with 1999.

SQUID

U.S. commercial landings of squid were 317.0 million pounds valued at \$55.0 million—an increase of 88.8 million pounds (23 percent) but a decrease of \$16.1 million (23 percent) compared with 1999. California was the leading state with 259.5 million pounds (82 percent) and was followed by Rhode Island with 26.1 million pounds (8 percent of the national total). The Pacific region landings were 259.5 million pounds (up 30 percent); followed by New England, 30.1 million (down 11 percent); Middle Atlantic, 26.5 million pounds (up 17 percent); and the Chesapeake region with 683,000 pounds (down 27 percent) compared with 1999. The average exvessel price per pound for squid was 17 cents in 2000 compared with 28 cents in 1999.

U.S. Commercial Landings

U.S. DOMESTIC LANDINGS, BY SPECIES, 1999 AND 2000 (1)

Species	1999			2000			Average (1995-1999)
Fish	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Alewives	1,502	681	332	642	291	171	1,160
Anchovies	11,736	5,323	1,359	25,324	11,487	1,129	8,925
Atka mackerel	113,396	51,436	5,670	98,308	44,592	8,848	140,097
Bluefish	7,405	3,359	2,673	8,072	3,661	2,796	8,549
Blue runner	397	180	230	288	131	183	558
Bonito	374	170	216	202	92	143	1,185
Butterfish	6,090	2,762	3,068	4,677	2,121	1,922	7,087
Catfish and bullheads	20,359	9,235	8,799	16,670	7,561	9,708	13,553
Chubs	3,362	1,525	1,468	2,167	983	1,646	3,761
Cod:							
Atlantic	21,445	9,727	23,943	25,060	11,367	26,384	27,126
Pacific	523,987	237,679	83,227	530,505	240,635	142,330	587,601
Creville (jack)	711	323	409	700	318	402	560
Croaker:							
Atlantic	26,853	12,180	7,667	26,760	12,138	10,093	23,015
Pacific (white)	163	74	131	231	105	156	354
Cusk	508	230	384	415	188	266	999
Dolphinfish	1,262	572	1,930	1,193	541	1,591	1,661
Eels, American	1,080	490	1,644	1,432	650	1,110	953
Flounders:							
Arrowtooth	26,541	12,039	1,458	41,305	18,736	2,007	18,675
Winter (blackback)	10,260	4,654	12,987	12,826	5,818	12,685	11,115
Plaice, American	6,909	3,134	8,536	9,288	4,213	9,539	8,705
Summer (fluke)	10,663	4,837	19,480	11,214	5,087	19,947	13,401
Sole:							
Dover	23,276	10,558	7,056	20,750	9,412	6,968	24,171
Flathead	31,566	14,318	465	35,859	16,266	1,756	29,337
Witch (gray)	4,682	2,124	6,610	5,376	2,439	6,999	4,427
Petrale	3,262	1,480	3,106	4,124	1,871	4,184	3,587
Rock	37,900	17,191	772	60,665	27,517	7,521	51,285
Yellowfin	125,287	56,830	2,507	154,258	69,971	6,672	213,736
Yellowtail	9,768	4,431	11,376	15,272	6,927	15,352	6,718
Atlantic/Gulf, Other	4,189	1,900	6,988	4,702	2,133	7,305	3,726
Pacific, Other	36,915	16,745	8,605	37,084	16,821	8,975	61,199
Total, flounders	331,218	150,239	89,946	412,723	187,210	109,910	438,979
Goosefish (anglerfish)	55,215	25,045	46,328	45,869	20,806	53,504	56,549
Groupers	12,687	5,755	26,165	12,924	5,862	27,771	10,665
Haddock	6,937	3,147	9,120	8,823	4,002	11,575	3,728
Hakes:							
Pacific (whiting)	478,154	216,889	18,593	452,718	205,352	18,809	460,029
Red	3,431	1,556	919	3,463	1,571	892	3,052
Silver (Atl. whiting)	30,977	14,051	14,282	26,855	12,181	11,370	33,433
White	5,805	2,633	4,302	6,629	3,007	3,809	6,529
Halibut	80,330	36,437	124,696	75,190	34,106	143,826	63,469
Herring:							
Sea:							
Atlantic	175,478	79,596	11,082	160,269	72,698	9,972	182,103
Pacific	91,059	41,304	14,989	74,835	33,945	12,043	111,626
Thread	3,461	1,570	386	6,737	3,056	466	9,387
Jack mackerel	2,461	1,116	199	2,902	1,316	247	3,479

See notes at end of table.

(Continued)

U.S. Commercial Landings

U.S. DOMESTIC LANDINGS, BY SPECIES, 1999 AND 2000 (1) - Continued

Species	1999			2000			Average (1995-1999)
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Fish - Continued:							
Lingcod	1,392	631	1,007	379	172	381	3,144
Mackerels:							
Atlantic	26,560	12,048	3,572	12,454	5,649	2,018	28,323
Chub	19,217	8,717	1,082	47,065	21,349	2,826	29,154
King and cero	5,313	2,410	6,929	4,952	2,246	7,063	5,028
Spanish	3,004	1,363	1,925	3,636	1,649	2,076	3,652
Menhaden:							
Atlantic	458,556	208,000	34,564	456,623	207,123	31,733	640,433
Gulf	1,530,525	694,242	78,518	1,303,875	591,434	80,670	1,224,566
Total, menhaden	1,989,081	902,241	113,082	1,760,498	798,557	112,403	1,864,998
Mullets	15,336	6,956	8,486	20,554	9,323	13,652	18,434
Ocean perch:							
Atlantic	778	353	420	702	318	375	744
Pacific	45,402	20,594	3,640	39,521	17,927	2,597	41,991
Pollock:							
Atlantic	10,129	4,594	8,440	8,913	4,043	7,028	9,098
Walleye (Alaska)	2,325,889	1,055,016	162,812	2,606,802	1,182,438	160,525	2,606,110
Rockfishes:							
Bocaccio	434	197	198	60	27	43	1,115
Canary	1,702	772	813	134	61	78	2,460
Chilipepper	2,025	919	941	980	445	596	2,970
Widow	9,353	4,242	3,580	7,947	3,605	3,791	12,412
Yellowtail	7,646	3,468	2,937	6,988	3,170	3,138	7,212
Other	42,063	19,080	21,967	33,935	15,393	15,739	71,328
Total, rockfishes	63,223	28,678	30,436	50,044	22,700	23,385	145,050
Sablefish	48,255	21,888	97,148	49,680	22,535	101,161	54,106
Salmon:							
Chinook or king	15,276	6,929	25,524	16,099	7,302	26,194	19,695
Chum or keta	143,949	65,295	25,739	162,332	73,633	39,238	165,553
Pink	382,091	173,315	52,431	208,201	94,439	27,094	339,234
Red or sockeye	244,349	110,836	233,308	208,162	94,422	159,604	246,737
Silver or coho	29,231	13,259	22,783	33,841	15,350	18,083	37,073
Total, salmon	814,896	369,634	359,785	628,635	285,147	270,213	808,291
Sardines:							
Pacific	132,153	59,944	5,263	149,666	67,888	7,319	97,139
Spanish	1,181	536	191	1,355	615	84	1,013
Scup or porgy	3,879	1,760	4,783	3,018	1,369	3,670	5,725
Sea bass:							
Black (Atlantic)	3,786	1,717	6,077	3,343	1,516	5,657	3,578
White (Pacific)	247	112	410	223	101	425	128
Sea trout or weakfish:							
Gray	6,935	3,146	4,188	5,375	2,438	3,589	7,337
Spotted	871	395	1,164	572	259	775	1,065
Sand (white)	210	95	108	164	74	125	173
Shads:							
American	2,635	1,195	1,148	2,974	1,349	1,302	3,299
Hickory	137	62	30	111	50	23	136
Sharks:							
Dogfish	36,712	16,652	5,951	23,680	10,741	4,853	50,098
Other	14,711	6,673	6,625	11,333	5,141	6,303	14,922
Sheepshead (Atlantic)	2,609	1,183	989	3,369	1,528	1,061	3,363

See notes at end of table.

(Continued)

U.S. Commercial Landings

U.S. DOMESTIC LANDINGS, BY SPECIES, 1999 AND 2000 (1) - Continued

Species	1999			2000			Average (1995-1999)
<u>Fish - Continued:</u>	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Skates	31,381	14,234	3,690	33,184	15,052	4,431	28,425
Smelts	1,702	772	913	1,893	859	2,298	2,215
Snappers:							
Red	4,722	2,142	10,492	5,084	2,306	12,003	4,441
Vermilion	1,614	732	3,474	2,009	911	4,394	1,434
Unclassified	3,991	1,810	7,712	3,584	1,626	7,183	4,526
Spearfish	473	215	397	271	123	328	1,475
Spot	5,729	2,599	2,191	6,925	3,141	3,684	6,660
Striped bass	6,625	3,005	10,987	6,913	3,136	12,286	5,570
Swordfish	16,022	7,268	33,436	17,805	8,076	37,981	14,125
Tenpounder (ladyfish)	4,337	1,967	1,997	266	121	139	2,697
Tilefish	2,070	939	4,040	2,605	1,182	4,852	3,232
Trout, rainbow	180	82	101	321	146	224	400
Tuna:							
Albacore	25,274	11,464	21,932	22,455	10,185	20,630	27,758
Bigeye	7,978	3,619	25,428	7,245	3,286	24,862	7,356
Bluefin	2,689	1,220	15,573	3,167	1,436	18,954	6,435
Little (tunny)	1,132	513	626	484	220	113	664
Skipjack	10,322	4,682	5,221	3,378	1,532	2,551	14,376
Yellowfin	10,286	4,666	17,076	13,781	6,251	27,651	17,936
Unclassified	439	199	398	268	122	416	531
Total, tuna	58,120	26,363	86,254	50,779	23,033	95,176	75,055
Whitefish, lake	11,802	5,353	9,982	11,461	5,199	10,095	12,106
Wolfish, Atlantic	568	258	242	442	200	218	745
Yellow perch	1,184	537	2,584	1,249	567	2,929	1,620
Other marine finfishes	47,649	21,613	32,769	58,705	26,628	37,109	63,838
Other freshwater finfishes	21,315	9,668	7,183	14,564	6,606	5,524	16,226
Total, fish	7,811,868	3,543,440	1,558,292	7,689,661	3,488,007	1,594,815	--
<u>Shellfish</u>							
Clams:							
Quahog (hard)	8,396	3,808	44,798	11,205	5,083	53,841	10,220
Geoduck (Pacific)	1,498	679	15,437	1,560	708	15,841	1,341
Manila (Pacific)	693	314	4,529	829	376	11,808	689
Ocean quahog	38,705	17,556	18,535	32,845	14,898	16,979	43,602
Softshell	2,655	1,204	12,397	2,680	1,216	11,604	2,480
Surf (Atlantic)	58,829	26,685	30,431	68,548	31,093	38,025	59,524
Other	1,454	660	8,897	815	370	5,875	1,322
Total, clams	112,230	50,907	135,024	118,482	53,743	153,973	118,367
Conch (snails)	3,329	1,510	3,991	2,086	946	3,649	3,818
Crabs:							
Blue: Hard	196,521	89,141	150,482	177,231	80,391	135,637	213,154
Soft and peeler	5,973	2,709	20,800	6,640	3,012	23,145	4,385
Dungeness	35,449	16,080	71,111	37,719	17,109	79,007	44,136
Jonah	3,414	1,549	1,651	2,455	1,114	1,479	1,859
King	16,920	7,675	88,075	15,098	6,848	61,641	18,948

See notes at end of table.

(Continued)

U.S. Commercial Landings

U.S. DOMESTIC LANDINGS, BY SPECIES, 1999 AND 2000 (1) - Continued

Species	1999			2000			Average (1995-1999)
Shellfish - Continued	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>
Crabs - Continued:							
Snow (Tanner):							
Opilio	182,997	83,007	161,037	32,811	14,883	60,535	137,526
Bairdi	2,165	982	4,746	1,686	765	4,019	3,361
Other	14,868	6,744	23,335	25,366	11,506	39,543	15,957
Total, crabs	458,307	207,887	521,237	299,006	135,628	405,006	439,284
Crawfish (freshwater)	11,734	5,323	8,237	479	217	743	17,047
Horseshoe crab	5,286	2,398	1,474	3,737	1,695	923	4,753
Lobsters:							
American	87,469	39,676	322,957	83,180	37,730	301,300	77,816
Spiny	6,692	3,035	29,754	6,463	2,932	32,926	7,060
Mussels, blue (sea)	1,981	899	1,046	3,264	1,481	5,083	4,351
Oysters	26,983	12,239	72,658	41,146	18,664	90,667	35,205
Scallops:							
Bay	35	16	181	25	11	130	100
Calico, Atlantic	4,105	1,862	3,880	(3)	(3)	(3)	--
Sea	23,038	10,450	125,289	32,747	14,854	164,609	17,272
Shrimp:							
New England	3,812	1,729	3,579	5,361	2,432	4,335	12,255
South Atlantic	30,197	13,697	68,585	32,288	14,646	77,735	31,923
Gulf	236,476	107,265	464,178	256,633	116,408	582,052	222,067
Pacific	33,669	15,272	24,041	38,203	17,329	26,325	32,898
Other	19	9	118	1	(2)	6	67
Total, shrimp	304,173	137,972	560,501	332,486	150,815	690,453	299,187
Squid:							
Atlantic:							
Illex	16,169	7,334	3,852	19,867	9,012	3,736	33,049
Loligo	41,335	18,749	32,176	37,351	16,942	24,062	37,569
Unclassified	806	366	190	302	137	158	67,085
Pacific:							
Loligo	199,874	90,662	34,949	259,506	117,711	27,076	120,731
Unclassified	14	6	5	2	1	1	94
Total, Squid	258,198	117,118	71,172	317,028	143,803	55,033	120,825
Other shellfish	14,616	6,628	9,720	15,132	6,864	14,204	11,351
Total, Shellfish	1,318,176	597,921	1,867,121	1,255,261	569,383	1,918,699	--
Other							
Sea urchins	33,550	15,218	35,647	30,896	14,014	33,590	42,313
Seaweed, unclassified	174,162	78,999	525	92,531	41,972	163	96,446
Kelp (with herring eggs)	521	236	1,543	191	87	77	449
Worms	757	343	3,956	445	202	2,137	636
Total, other	208,990	94,797	41,671	124,063	56,275	35,967	--
Grand Total, U.S.	9,339,034	4,236,158	3,467,084	9,068,985	4,113,664	3,549,481	--

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River drainage are not available.

(2) Less than \$500.

(3) Data are confidential and included with unclassified shellfish.

Note:—Data are preliminary. Totals may not add due to rounding. Total U.S. Domestic landings include Alaska pollock, Pacific whiting and other Pacific groundfish that are caught in the U.S. EEZ off Washington, Oregon and Alaska and processed at-sea aboard U.S. vessels. Data do not include landings by U.S.-flag vessels at Puerto Rico or other ports outside the 50 States. Data do not include aquaculture products, except oysters and clams.

U.S. Commercial Landings

DISPOSITION OF U.S. DOMESTIC LANDINGS, 1999 AND 2000

End Use	1999		2000	
	<u>Million</u> <u>pounds</u>	<u>Percent</u>	<u>Million</u> <u>pounds</u>	<u>Percent</u>
Fresh and frozen:				
For human food	6,046	64.7	6,293	69.4
For bait and animal food	370	4.0	364	4.0
Total	6,416	68.7	6,657	73.4
Canned:				
For human food	653	7.0	500	5.5
For bait and animal food	59	0.6	30	0.3
Total	712	7.6	530	5.8
Cured for human food	133	1.4	119	1.3
Reduction to meal, oil, other	2,078	22.3	1,763	19.4
Grand total	9,339	100.0	9,069	100.0

NOTE:—Data are preliminary. Table may not add due to rounding.

DISPOSITION OF U.S. DOMESTIC LANDINGS, BY MONTH, 2000

Month	Landings for human food		Landings for industrial purposes (1)		Total	
	<u>Million</u> <u>pounds</u>	<u>Percent</u>	<u>Million</u> <u>pounds</u>	<u>Percent</u>	<u>Million</u> <u>pounds</u>	<u>Percent</u>
January	339	4.9	47	2.2	386	4.3
February	870	12.6	29	1.4	900	9.9
March	721	10.4	23	1.1	745	8.2
April	347	5.0	138	6.4	485	5.4
May	387	5.6	201	9.3	587	6.5
June	457	6.6	294	13.6	751	8.3
July	778	11.3	404	18.7	1,182	13.0
August	1,067	15.4	378	17.5	1,445	15.9
September	957	13.8	240	11.1	1,197	13.2
October	571	8.3	227	10.5	798	8.8
November	244	3.5	119	5.5	363	4.0
December	173	2.5	57	2.7	231	2.5
Total	6,912	100.0	2,157	100.0	9,069	100.0

(1) Processed into meal, oil, solubles, and shell products, or used as bait and animal food.

U.S. COMMERCIAL LANDINGS OF FISH AND SHELLFISH, 1991-2000 (1)

Year	Landings for human food		Landings for industrial purposes (2)		Total	
	<u>Million</u> <u>pounds</u>	<u>Million</u> <u>dollars</u>	<u>Millions</u> <u>pounds</u>	<u>Million</u> <u>dollars</u>	<u>Millions</u> <u>pounds</u>	<u>Million</u> <u>dollars</u>
1991	7,031	3,169	2,453	139	9,484	3,308
1992	7,618	3,531	2,019	147	9,637	3,678
1993	*8,214	3,317	2,253	154	10,467	3,471
1994	7,936	3,714	2,525	95	10,461	3,809
1995	7,667	3,625	2,121	145	9,788	3,770
1996	7,474	3,355	2,091	132	9,565	3,487
1997	7,244	3,285	2,598	163	9,842	3,448
1998	7,173	3,009	2,021	119	9,194	3,128
1999	6,832	3,265	2,507	202	9,339	3,467
2000	6,912	3,398	2,157	152	9,069	3,550

(1) Statistics on landings are shown in round weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are shown in weight of meats (excluding the shell).

(2) Processed into meal, oil, solubles, and shell products, or used as bait or animal food.

*Record. Record—For industrial purposes 1983, 3,201 million lb.

NOTE:—Data are preliminary. Data do not include landings outside the 50 States or products of aquaculture, except oysters and clams.

U.S. Commercial Landings

U.S. DOMESTIC LANDINGS, BY REGION AND BY STATE, 1999 AND 2000 (1)

Regions and States	1999		2000		Record Landings	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Year	Thousand pounds
New England:	583,863	655,377	570,728	681,092	-	-
Maine	229,633	265,236	226,849	275,107	1950	356,266
New Hampshire	11,258	12,542	17,160	13,951	-	(2)
Massachusetts	198,336	260,239	187,861	288,263	1948	649,696
Rhode Island	126,206	79,270	119,295	72,544	1957	142,080
Connecticut	18,430	38,090	19,563	31,227	1930	88,012
Middle Atlantic:	225,278	180,673	219,661	173,296	-	-
New York	48,175	76,049	41,181	59,426	1880	335,000
New Jersey	168,676	97,731	171,804	107,163	1956	540,060
Delaware	8,427	6,893	6,676	6,707	1953	367,500
Chesapeake:	527,407	172,012	492,110	172,210	-	-
Maryland	67,118	63,759	48,913	53,874	1990	141,607
Virginia	460,289	108,253	443,197	118,336	1890	786,794
South Atlantic:	230,971	198,347	221,350	204,480	-	-
North Carolina	154,869	97,304	155,214	95,305	1981	432,006
South Carolina	17,773	29,265	15,835	30,344	1965	26,611
Georgia	11,234	21,100	9,694	21,331	1927	47,607
Florida, East Coast	47,095	50,678	40,607	57,500	-	(2)
Gulf:	1,945,063	757,857	1,759,993	910,685	-	-
Florida, West Coast	83,792	146,976	79,415	155,200	-	(2)
Alabama	27,399	50,415	29,931	63,275	1973	36,744
Mississippi	267,546	48,526	217,744	58,715	1985	439,518
Louisiana	1,480,045	302,735	1,344,913	401,095	1984	1,931,027
Texas	86,281	209,205	87,990	232,400	1960	237,684
Pacific Coast:	5,765,700	1,422,258	5,750,364	1,320,763	-	-
Alaska	4,492,649	1,105,946	4,465,987	956,990	1993	5,905,638
Washington	392,555	98,471	380,223	145,311	1994	527,804
Oregon	233,177	67,590	262,917	79,351	1992	256,912
California	647,319	150,251	641,237	139,111	1936	1,760,193
Great Lakes:	23,843	16,009	22,245	18,508	-	-
Illinois	86	50	49	35	-	(2)
Indiana	-	-	-	-	-	(2)
Michigan	13,546	9,339	12,704	8,963	1930	35,580
Minnesota	443	197	377	172	-	(2)
New York	1	2	49	75	-	-
Ohio	3,932	2,186	3,497	2,442	1936	31,083
Pennsylvania	32	43	20	29	-	(2)
Wisconsin	5,803	4,192	5,549	6,792	-	(2)
Hawaii	36,907	64,557	32,531	68,447	1999	36,907
Total, United States	9,339,032	3,467,090	9,068,982	3,549,481	---	---

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River drainage area States are not available.

2) Data not available.

NOTE:—Data are preliminary. Landings of Alaska pollock, Pacific whiting, and other Pacific groundfish that are caught in waters off Washington, Oregon and Alaska and are processed at-sea aboard U.S. vessels are credited to the State nearest to the area of capture. Totals may not add due to roundings. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States. Therefore, they will not agree with "U.S. Commercial Landings" beginning on page 8. Data do not include aquaculture products, except oysters and clams.

U.S. Commercial Landings

COMMERCIAL FISHERY LANDINGS AND VALUE AT MAJOR U.S. PORTS, 1999-2000

Port	Quantity		Port	Value	
	1999	2000		1999	2000
	Million pounds			Million dollars	
Dutch Harbor-Unalaska, AK	678.3	699.8	New Bedford, MA	129.9	146.3
Cameron, LA	406.0	414.5	Dutch Harbor-Unalaska, AK	140.8	124.9
Empire-Venice, LA	435.0	396.2	Kodiak, AK	100.8	94.7
Reedville, VA	378.6	366.8	Dulac-Chauvin, LA	49.0	68.1
Intercoastal City, LA	369.0	321.7	Empire-Venice, LA	64.0	61.6
Kodiak, AK	331.6	289.6	Honolulu, HI	52.1	56.0
Los Angeles, CA	194.7	252.5	Hampton Roads Area, VA	39.1	52.8
Pascagoula-Moss Point, MS	250.5	199.9	Key West, FL	51.9	50.6
Port Hueneme-Oxnard-Ventura, CA	155.9	161.7	Port Arthur, TX	22.4	49.3
Astoria, OR	118.2	130.1	Bayou La Batre, AL	40.0	48.9
Newport, OR	92.4	102.3	Cameron, LA	36.0	47.6
Sitka, AK	36.2	95.5	Portland, ME	42.4	45.4
New Bedford, MA	86.1	89.0	Golden Meadow-Leeville, LA	29.0	44.9
Beaufort-Morehead City, NC	57.0	68.4	Sitka, AK	32.6	44.6
Naknek-King Salmon, AK	62.3	63.1	Palacios, TX	35.9	41.8
Portland, ME	55.6	62.8	Point Judith, RI	51.2	41.4
Cape May-Wildwood, NJ	64.0	59.9	Brownsville-Port Isabel, TX	65.2	40.8
Point Judith, RI	72.5	59.3	Galveston, TX	33.1	40.8
Ketchikan, AK	159.4	57.3	Los Angeles, CA	36.1	38.0
Atlantic City, NJ	41.2	50.4	Naknek-King Salmon, AK	46.5	37.3
Moss Landing, CA	40.7	50.0	Seward, AK	41.5	35.8
Dulac-Chauvin, LA	42.0	48.2	Gulfport-Biloxi, MS	27.9	35.5
Gloucester, MA	49.7	40.1	Homer, AK	34.6	30.9
Point Pleasant, NJ	33.4	38.2	Delcambre, LA	25.0	30.8
Westport, WA	25.6	37.5	Gloucester, MA	25.9	30.0
Wanchese-Stumpy Point, NC	33.6	33.3	Reedville, VA	32.4	29.5
Petersburg, AK	99.2	32.3	Cape May-Wildwood, NJ	26.6	28.6
Seward, AK	41.8	28.6	Astoria, OR	23.1	28.0
Rockland, ME	35.8	28.3	Grand Isle, LA	12.0	26.4
Honolulu, HI	30.6	27.0	Atlantic City, NJ	20.0	26.1
Golden Meadow-Leeville, LA	19.0	26.9	Newport, OR	19.6	24.6
Bayou La Batre, AL	17.8	23.0	Intercoastal City, LA	21.0	24.5
Hampton Roads Area, VA	21.9	22.7	Wanchese-Stumpy Point, NC	22.7	24.0
Morgan City-Benwick, LA	137.0	20.2	Freeport, TX	16.6	22.8
Ilwaco-Chinook, WA	10.5	19.8	Tampa Bay-St. Petersburg, FL	19.2	20.4
Coos Bay-Charleston, OR	26.0	19.2	Delacroix-Ysloskey, LA	17.0	20.1
Grand Isle, LA	14.0	18.2	Ketchikan, AK	39.9	20.0
Homer, AK	17.4	18.1	Port Hueneme-Oxnard-Ventura, CA	32.3	20.0
Bellingham, WA	21.2	18.0	Petersburg, AK	34.1	19.4
Provincetown-Chatham, MA	20.0	17.5	Stonington, ME	9.1	18.0
Galveston, TX	18.0	17.4	Aransas Pass-Rockport, TX	15.0	17.8
Port Arthur, TX	8.9	17.0	Point Pleasant, NJ	17.2	17.8
Key West, FL	19.8	16.9	Westport, WA	10.8	17.8
Stonington, ME	3.2	15.9	Beaufort-Morehead City, NC	16.7	16.9
Delacroix-Ysloskey, LA	16.0	15.5	Fort Myers, FL	18.9	16.5
Crescent City, CA	14.3	15.5	Pascagoula-Moss Point, MS	16.0	16.5
Palacios, TX	12.8	14.8	Bellingham, WA	16.9	15.9
Gulfport-Biloxi, MS	13.4	14.2	Cape Canaveral, FL	11.9	15.3
Eureka, CA	12.1	13.7	Charleston-Mt. Pleasant, SC	12.0	14.1
Kenai, AK	19.6	13.5	Provincetown-Chatham, MA	12.9	13.6

Notes:—To avoid disclosure of private enterprise certain leading ports have not been included to preserve confidentiality. Catches of Alaska pollock, Pacific whiting and other Pacific groundfish caught in the northeast Pacific EEZ of the U.S. and processed at-sea are not attributed to a specific U.S. port. The record landings for quantity was 848.2 million pounds in Los Angeles, CA in 1960 and for value was \$224.1 million in Dutch Harbor-Unalaska, AK in 1994.

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 2000 (1)

Species	Distance from U.S. shores		3 - 200 miles		High Seas or off Foreign Shores		Total U.S. Landings	
	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Fish								
Alewives	633	170	9	1	-	-	642	171
Anchovies	15,701	700	9,623	429	-	-	25,324	1,129
Atka mackerel	-	-	98,308	8,848	-	-	98,308	8,848
Bluefish	4,197	1,450	3,875	1,346	-	-	8,072	2,796
Blue runner	171	129	116	54	-	-	288	183
Bonito	77	53	126	89	-	-	202	143
Butterfish	744	407	3,933	1,515	-	-	4,677	1,922
Catfish & bullheads	16,667	9,706	3	2	-	-	16,670	9,708
Chubs	2,167	1,646	(2)	(2)	-	-	2,167	1,646
Cod:								
Atlantic	787	877	24,273	25,508	-	-	25,060	26,384
Pacific	61,334	19,423	469,170	122,906	-	-	530,505	142,330
Crevalle (jack)	292	180	408	222	-	-	700	402
Croaker:								
Atlantic	16,488	7,224	10,272	2,869	-	-	26,760	10,093
Pacific (white)	83	56	148	100	-	-	231	156
Cusk	12	8	403	258	-	-	415	266
Dolphinfish	4	6	1,097	1,523	92	61	1,193	1,591
Eel, American	1,431	1,109	(2)	(2)	-	-	1,432	1,110
Flounders:								
Arrowtooth	1,016	96	40,289	1,911	-	-	41,305	2,007
Winter (blackback)	2,414	2,366	10,412	10,320	-	-	12,826	12,685
Plaice, American	733	755	8,556	8,783	-	-	9,288	9,539
Summer (fluke)	2,586	5,082	8,628	14,865	-	-	11,214	19,947
Sole:								
Dover	4,281	1,552	16,469	5,416	-	-	20,750	6,968
Flathead	147	16	35,713	1,740	-	-	35,859	1,756
Witch (gray)	208	275	5,168	6,724	-	-	5,376	6,999
Petrale	972	982	3,151	3,202	-	-	4,124	4,184
Rock	247	43	60,418	7,478	-	-	60,665	7,521
Yellowfin	-	-	154,258	6,672	-	-	154,258	6,672

See footnotes at end of table

(Continued)

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 2000 (1)

Species	Distance from U.S. shores		High Seas or off Foreign Shores		Total U.S. Landings	
	0 to 3 miles	3 - 200 miles	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Fish - Continued	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Flounders - Continued:						
Yellowtail	403	404	14,869	14,949	15,272	15,352
Atlantic/Gulf, other	4,204	7,108	498	196	4,702	7,305
Pacific, other	2,042	1,435	35,042	7,539	37,084	8,975
Total flounders	19,253	20,114	393,471	89,795	412,723	109,910
Goosefish (anglerfish)	1,644	1,797	44,226	51,707	45,869	53,504
Groupers	561	1,190	12,363	26,581	12,924	27,771
Haddock	120	160	8,703	11,415	8,823	11,575
Hakes:						
Pacific (whiting)	-	-	452,718	18,809	452,718	18,809
Red	99	23	3,365	869	3,463	892
Silver (Atl. whiting)	344	133	26,511	11,236	26,855	11,370
White	99	60	6,529	3,749	6,629	3,809
Halibut	2,877	5,768	73,763	141,973	76,640	147,741
Herring:						
Sea:						
Atlantic	44,625	2,793	118,612	7,300	163,237	10,092
Pacific	74,835	12,043	-	-	74,835	12,043
Thread	6,737	466	(2)	(2)	6,737	466
Jack mackerel	2,422	219	480	29	2,902	247
Lingcod	116	113	263	268	379	381
Mackerels:						
Atlantic	657	271	11,797	1,747	12,454	2,018
Chub	40,028	2,398	7,037	428	47,065	2,826
King and cero	662	895	4,289	6,168	4,952	7,063
Spanish	1,338	818	2,298	1,258	3,636	2,076
Menhaden:						
Atlantic	380,334	26,379	76,289	5,354	456,623	31,733
Gulf	1,008,197	62,371	295,678	18,299	1,303,875	80,670
Total menhaden	1,388,531	88,750	371,967	23,653	1,760,498	112,403
Mullets	20,462	13,583	92	69	20,554	13,652
Ocean perch:						
Atlantic	5	3	696	372	702	375
Pacific	26	2	39,496	2,595	39,521	2,597

See footnotes at end of table

(Continued)

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 2000 (1)

Species	Distance from U.S. shores		3 - 200 miles		High Seas or off Foreign Shores		Total U.S. Landings	
	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Fish - Continued								
Pollock:								
Atlantic	77	60	8,836	6,967	-	-	8,913	7,028
Walleye (Alaska)	47,489	3,717	2,559,313	156,808	-	-	2,606,802	160,525
Rockfishes:								
Bocaccio	12	9	48	34	-	-	60	43
Canary	7	4	127	74	-	-	134	78
Chilepepper	257	157	722	439	-	-	980	596
Widow	219	111	7,728	3,679	-	-	7,947	3,791
Yellowtail	46	29	6,942	3,109	-	-	6,988	3,138
Other	3,005	2,097	30,930	13,642	-	-	33,935	15,739
Total rockfishes	3,546	2,407	46,497	20,977	-	-	50,044	23,395
Sablefish	7,133	14,406	42,546	86,754	-	-	49,680	101,161
Salmon:								
Chinook or king	10,591	16,509	5,508	9,685	-	-	16,099	26,194
Chum or keta	162,320	39,235	12	3	-	-	162,332	39,238
Pink	208,201	27,094	-	-	-	-	208,201	27,094
Red or sockeye	208,162	159,604	(2)	(2)	-	-	208,162	159,604
Silver or coho	32,942	17,410	899	673	-	-	33,841	18,083
Total salmon	622,216	259,852	6,419	10,361	-	-	628,635	270,213
Sardines:								
Pacific	126,068	6,218	23,598	1,101	-	-	149,666	7,319
Spanish	1,355	84	-	-	-	-	1,355	84
Scup or porgy	1,344	1,805	1,674	1,865	-	-	3,018	3,670
Sea bass:								
Black (Atlantic)	847	1,308	2,497	4,349	-	-	3,343	5,657
White (Pacific)	78	149	145	276	-	-	223	425
Sea trout or weakfish:								
Gray	3,781	2,585	1,594	1,004	-	-	5,375	3,589
Spotted	565	770	7	5	-	-	572	775
Sand (white)	134	109	30	16	-	-	164	125
Shads:								
American	2,878	1,264	96	38	-	-	2,974	1,302
Hickory	110	22	2	(2)	-	-	111	23

(Continued)

See footnotes at end of table

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 2000 (1)

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 2000 (1)

Species	Distance from U.S. shores		3 - 200 miles		High Seas or off Foreign Shores		Total U.S. Landings	
	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Shellfish								
Clams:								
Quahog (hard)	11,203	53,841	1	(2)	-	-	11,205	53,841
Geoduck (Pacific)	1,560	15,841	-	-	-	-	1,560	15,841
Manila (Pacific)	829	11,808	-	-	-	-	829	11,808
Ocean quahog	12,467	6,646	20,379	10,333	-	-	32,845	16,979
Softshell	2,680	11,604	-	-	-	-	2,680	11,604
Surf (Atlantic)	28,411	16,818	40,136	21,207	-	-	68,548	38,025
Other	815	5,875	(2)	(2)	-	-	815	5,875
Total clams	57,965	122,433	60,516	31,540	-	-	118,482	153,973
Conch (snails)	1,215	1,819	871	1,829	-	-	2,086	3,649
Crabs:								
Blue: Hard	177,230	135,636	1	(2)	-	-	177,231	135,637
Soft or peeler	6,640	23,145	(2)	(2)	-	-	6,640	23,145
Dungeness	34,381	72,155	3,338	6,853	-	-	37,719	79,007
Jonah	1,346	775	1,108	704	-	-	2,455	1,479
King	1,239	3,955	13,859	57,685	-	-	15,098	61,641
Snow (lanner):								
Opilio	-	-	32,811	60,535	-	-	32,811	60,535
Bairdi	1,686	4,019	-	-	-	-	1,686	4,019
Other	7,516	8,073	17,850	31,471	-	-	25,366	39,543
Total crabs	230,038	247,758	68,967	157,248	-	-	299,006	405,006
Crawfish, freshwater	479	743	704	165	-	-	479	743
Horseshoe crab	3,033	758	-	-	-	-	3,737	923
Lobsters:								
American	54,637	199,033	28,543	102,266	-	-	83,180	301,300
Spiny	2,621	14,107	3,842	18,819	-	-	6,463	32,926
Mussels, blue (sea)	3,264	5,083	-	-	-	-	3,264	5,083
Oysters	41,146	90,667	(2)	(2)	-	-	41,146	90,667

See footnotes at end of table

(Continued)

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 2000 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Total U.S. Landings	
	0 to 3 miles		3 - 200 miles					
Shellfish - Continued	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Scallops:								
Bay	25	130	(2)	(2)	-	-	25	130
Calico, Atlantic	(3)	(3)	(3)	(3)	-	-	(3)	(3)
Sea	984	5,736	31,764	158,874	-	-	32,747	164,609
Shrimp:								
New England	1,579	1,250	3,782	3,086	-	-	5,361	4,335
South Atlantic	23,682	61,217	8,606	16,517	-	-	32,288	77,735
Gulf	89,841	275,636	166,792	306,417	-	-	256,633	582,052
Pacific	8,225	10,126	29,978	16,198	-	-	38,203	26,325
Other	(2)	3	(2)	3	-	-	1	6
Total shrimp	123,327	348,232	209,158	342,221	-	-	332,486	690,453
Squid:								
Atlantic:								
Illex	221	46	19,646	3,690	-	-	19,867	3,736
Loligo	6,751	4,263	30,601	19,799	-	-	37,351	24,062
Unclassified	95	52	207	106	-	-	302	158
Pacific:								
Loligo	243,936	25,452	15,570	1,625	-	-	259,506	27,076
Unclassified	2	1	-	-	-	-	2	1
Total, squid	251,005	29,814	66,024	25,220	-	-	317,028	55,033
Other shellfish	14,639	13,452	493	752	-	-	15,132	14,204
Total shellfish	784,378	1,079,765	470,882	838,934	-	-	1,255,261	1,918,699
Other								
Sea urchins	30,896	33,590	-	-	-	-	30,896	33,590
Seaweed, unclassified	92,531	163	-	-	-	-	92,531	163
Kelp (with herring eggs)	191	77	-	-	-	-	191	77
Worms	445	2,137	-	-	-	-	445	2,137
Grand total, 2000	3,546,780	1,671,964	5,506,847	1,847,265	305,643	119,135	9,359,274	3,638,372
Grand total, 1999	4,073,307	1,729,910	5,228,018	1,695,177	460,212	176,906	9,594,787	3,294,361

(1) Landings are reported in round (live) weight for all items except univale and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance-from-shore landings for data collected by the Service and States. Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States.
(2) Less than 500 LB or \$500. (3) Data are confidential and included with other shellfish.
NOTE:—Data are preliminary. Totals may not agree due to roundings. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States. Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. Data do not include aquaculture products, except oysters or clams.

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 2000 (1)

Species	Distance from U.S. shores		High Seas or off Foreign Shores		Total U.S. Landings	
	0 to 3 miles	3 to 200 miles	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Fish	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Alwives	287	170	4	1	291	171
Anchovies	7,122	700	4,365	429	11,487	1,129
Atka mackerel	-	-	44,592	8,848	44,592	8,848
Bluefish	1,904	1,450	1,758	1,346	3,661	2,796
Blue runner	78	129	53	54	130	183
Bonito	35	53	57	89	92	143
Butterfish	337	407	1,784	1,515	2,121	1,922
Catfish & bullheads	7,560	9,706	1	2	7,561	9,708
Chubs	983	1,646	(2)	(2)	983	1,646
Code:						
Atlantic	357	877	11,010	25,508	11,367	26,384
Pacific	27,821	19,423	212,814	122,906	240,635	142,330
Crevalle (jack)	132	180	185	222	318	402
Croaker:						
Atlantic	7,479	7,224	4,659	2,869	12,138	10,093
Pacific (white)	38	56	67	100	105	156
Cusk	5	8	183	258	188	266
Dolphinfish	2	6	498	1,523	541	1,591
Eel, American	649	1,109	(2)	(2)	649	1,110
Flounders:						
Arrowtooth	461	96	18,275	1,911	18,736	2,007
Winter (blackback)	1,095	2,366	4,723	10,320	5,818	12,685
Plaice, American	332	755	3,881	8,783	4,213	9,539
Summer (fluke)	1,173	5,082	3,914	14,865	5,087	19,947
Sole:						
Dover	1,942	1,552	7,470	5,416	9,412	6,968
Flathead	67	16	16,199	1,740	16,266	1,756
Witch (gray)	94	275	2,344	6,724	2,439	6,999
Petrale	441	982	1,429	3,202	1,870	4,184
Rock	112	43	27,405	7,478	27,517	7,521
Yellowfin	-	-	69,971	6,672	69,971	6,672

See footnotes at end of table

(Continued)

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 2000 ⁽¹⁾

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Total U.S. Landings	
	0 to 3 miles		3 to 200 miles					
	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Fish - Continued								
Flounders - Continued:								
Yellowtail	183	404	6,745	14,949	-	-	6,927	15,352
Atlantic/Gulf, other	1,907	7,108	226	196	-	-	2,133	7,305
Pacific, other	926	1,435	15,895	7,539	-	-	16,821	8,975
Total Flounders	8,733	20,114	178,477	89,795	-	-	187,210	109,910
Goosefish (anglerfish)	746	1,797	20,061	51,707	-	-	20,806	53,504
Groupers	254	1,190	5,608	26,581	-	-	5,862	27,771
Haddock	54	160	3,948	11,415	-	-	4,002	11,575
Hakes:								
Pacific (whiting)	-	-	205,352	18,809	-	-	205,352	18,809
Red	45	23	1,526	869	-	-	1,571	892
Silver (Atl. whiting)	156	133	12,025	11,236	-	-	12,181	11,370
White	45	60	2,962	3,749	-	-	3,006	3,809
Halibut	1,305	5,768	33,459	141,973	-	-	34,764	147,741
Herring:								
Sea:								
Atlantic	20,242	2,793	53,802	7,300	-	-	74,044	10,092
Pacific	33,945	12,043	-	-	-	-	33,945	12,043
Thread	3,056	466	(2)	(2)	-	-	3,056	466
Jack mackerel	1,099	219	218	29	-	-	1,316	247
Lingcod	53	113	119	268	-	-	172	381
Mackerels:								
Atlantic	298	271	5,351	1,747	-	-	5,649	2,018
Chub	18,157	2,398	3,192	428	-	-	21,349	2,826
King and cero	300	895	1,945	6,168	-	-	2,246	7,063
Spanish	607	818	1,042	1,258	-	-	1,649	2,076
Menhaden:								
Atlantic	172,518	26,379	34,604	5,354	-	-	207,123	31,733
Gulf	457,315	62,371	134,119	18,299	-	-	591,434	80,670
Total menhaden	629,834	88,750	168,723	23,653	-	-	798,557	112,403
Mullets	9,282	13,583	42	69	-	-	9,323	13,652
Ocean perch:								
Atlantic	2	3	316	372	-	-	318	375
Pacific	12	2	17,915	2,595	-	-	17,927	2,597

See footnotes at end of table

(Continued)

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 2000 (1)

Species	Distance from U.S. shores		High Seas or off Foreign Shores		Total U.S. Landings	
	0 to 3 miles	3 to 200 miles	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Fish - Continued						
Pollock:						
Atlantic	35	60	4,008	6,967	4,043	7,028
Walleye (Alaska)	21,541	3,717	1,160,897	156,808	1,182,438	160,525
Rockfishes:						
Bocaccio	5	9	22	34	27	43
Canary	3	4	58	74	61	78
Chilepepper	117	157	327	439	444	596
Widow			3,505	3,679	3,605	3,791
Yellowtail	21	29	3,149	3,109	3,170	3,138
Other	1,363	2,097	14,030	13,642	15,393	15,739
Total rockfishes	1,608	2,407	21,091	20,977	22,699	23,385
Sablefish	3,236	14,406	19,299	86,754	22,534	101,161
Salmon:						
Chinook or king	4,804	16,509	2,498	9,685	7,302	26,194
Chum or keta	73,628	39,235	5	3	73,633	39,238
Pink	94,439	27,094	-	-	94,439	27,094
Red or sockeye	94,422	159,604	(2)	(2)	94,422	18,083
Silver or coho	14,942	17,410	408	673	15,350	27,013
Total salmon	282,235	259,852	2,912	10,361	285,147	270,213
Sardines:						
Pacific	57,184	6,218	10,704	1,101	67,888	7,319
Spanish	615	84	-	-	615	84
Scup or porgy	610	1,805	759	1,865	1,369	3,670
Sea bass:						
Black (Atlantic)	384	1,308	1,133	4,349	1,517	5,657
White (Pacific)	35	149	66	276	101	425
Sea trout or weakfish:						
Gray	1,715	2,585	723	1,004	2,438	3,589
Spotted	256	770	3	5	259	775
Sand (white)	61	109	14	16	74	125
Shads:						
American	1,305	1,264	44	38	1,349	1,302
Hickory	50	22	1	(2)	51	23

(Continued)

See footnotes at end of table

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 2000 (1)

Species	Distance from U.S. shores		High Seas or off Foreign Shores		Total U.S. Landings	
	0 to 3 miles	3 to 200 miles	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Fish - Continued						
Sharks:						
Dogfish	2,783	1,134	7,958	3,719	10,741	4,853
Other	361	510	4,011	5,341	5,141	6,303
Sheepshead (Atlantic)	1,519	1,055	10	6	1,528	1,061
Skates	3,845	1,171	11,207	3,260	15,052	4,431
Smelts	843	2,284	15	14	859	2,298
Snappers:						
Red	73	738	2,233	11,265	2,306	12,003
Vermillion	1	1	911	4,392	912	4,394
Unclassified	129	616	1,497	6,566	1,626	7,183
Spearfish	3	8	63	168	123	328
Spot	3,069	3,621	73	63	3,142	3,684
Striped bass	3,047	11,934	89	352	3,136	12,286
Swordfish	182	856	4,591	22,728	8,076	37,981
Tenpounder (ladyfish)	121	139	(2)	(2)	121	139
Tilefish	2	7	1,179	4,845	1,182	4,852
Trout, Rainbow	146	224	-	-	146	224
Tuna:						
Albacore	242	549	9,444	18,541	13,504	27,653
Bigeye	110	868	1,840	13,838	5,717	27,072
Bluefin	7	15	1,397	18,842	1,437	18,954
Little tunny	55	25	165	88	220	113
Skipjack	329	903	387	1,047	97,429	53,294
Yellowfin	621	3,191	4,224	20,369	34,277	52,530
Unclassified	15	75	107	341	122	416
Total tuna	1,378	5,626	17,563	73,066	152,703	180,032
Whitefish, lake	5,199	10,095	-	-	5,199	10,095
Wolffish, Atlantic	4	5	196	213	200	218
Yellow perch	567	2,929	(2)	(2)	567	2,929
Other marine finfishes	12,990	18,259	12,932	16,118	26,628	37,109
Other freshwater finfishes	6,602	5,521	5	3	6,606	5,524
Total finfish	1,196,743	556,232	2,284,299	1,008,331	3,619,682	1,683,706

(Continued)

See footnotes at end of table

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 2000 (1)

Species	Distance from U.S. shores		High Seas or off Foreign Shores		Total U.S. Landings	
	0 to 3 miles	3 to 200 miles				
	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Shellfish						
Clams:						
Quahog (hard)	5,082	53,841	(2)	(2)	5,082	53,841
Geoduck (Pacific)	708	15,841	-	-	708	15,841
Manila (Pacific)	376	11,808	-	-	376	11,808
Ocean quahog	5,655	6,646	9,244	10,333	14,899	16,979
Softshell	1,216	11,604	-	-	1,216	11,604
Surf (Atlantic)	12,887	16,818	18,206	21,207	31,093	38,025
Other	370	5,875	(2)	(2)	370	5,875
Total clams	26,293	122,433	27,450	31,540	53,742	153,973
Conch (snails)	551	1,819	395	1,829	946	3,649
Crabs:						
Blue: Hard	80,391	135,636	(2)	(2)	80,391	135,637
Soft or peeler	3,012	23,145	(2)	(2)	3,012	23,145
Dungeness	15,595	72,155	1,514	6,853	17,109	79,007
Jonah	611	775	503	704	1,113	1,479
King	562	3,955	6,286	57,685	6,848	61,641
Snow (tanner):						
Opilio	-	-	14,883	60,535	14,883	60,535
Bairdi	765	4,019	-	-	765	4,019
Other	3,409	8,073	8,097	31,471	11,506	39,543
Total crabs	104,345	247,758	31,283	157,248	135,627	405,006
Crawfish, freshwater	217	743	-	-	217	743
Horseshoe crab	1,376	758	319	165	1,695	923
Lobsters:						
American	24,783	199,033	12,947	102,266	37,730	301,300
Spiny	1,189	14,107	1,743	18,819	2,932	32,926
Mussels, blue (sea)	1,481	5,083	-	-	1,481	5,083
Oysters	18,664	90,667	(2)	(2)	18,664	90,667

See footnotes at end of table

(Continued)

U.S. Commercial Landings

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 2000 (1)

Species	Distance from U.S. shores		3 to 200 miles		High Seas or off Foreign Shores		Total U.S. Landings	
	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Shellfish - Continued								
Scallops:								
Bay.	11	130	-	-	-	-	11	130
Calico, Atlantic	(3)	(3)	(3)	(3)	-	-	(3)	(3)
Sea	446	5,736	14,408	158,874	-	-	14,854	164,609
Shrimp:								
New England	716	1,250	1,716	3,086	-	-	2,432	4,335
South Atlantic	10,742	61,217	3,904	16,517	-	-	14,646	77,735
Gulf	40,752	275,636	75,656	306,417	-	-	116,408	582,052
Pacific	3,731	10,126	13,598	16,198	-	-	17,329	26,325
Other	(2)	3	(2)	3	-	-	(2)	6
Total shrimp	55,941	348,232	94,873	342,221	-	-	150,814	690,453
Squid:								
Atlantic:								
Illex	100	46	8,911	3,690	-	-	9,012	3,736
Loligo	3,062	4,263	13,881	19,799	-	-	16,943	24,062
Undersized	43	52	94	106	-	-	137	158
Pacific:								
Loligo	110,649	25,452	7,063	1,625	-	-	117,711	27,076
Undersized	1	1	-	-	-	-	1	1
Total, squid	113,855	29,814	29,948	25,220	-	-	143,803	55,033
Other shellfish	6,640	13,452	224	752	-	-	6,864	14,204
Total shellfish	355,792	1,079,765	213,591	838,934	-	-	569,382	1,918,699
Other								
Sea urchins	14,014	33,590	-	-	-	-	14,014	33,590
Seaweed, unclassified	41,972	163	-	-	-	-	41,972	163
Kelp (with herring eggs)	87	77	-	-	-	-	87	77
Worms	202	2,137	-	-	-	-	202	2,137
Total other	56,275	35,967	-	-	-	-	56,275	35,967
Grand total, 2000	1,608,809	1,671,964	2,497,889	1,847,265	138,639	119,135	4,245,338	3,638,372
Grand total, 1999	1,847,640	1,729,910	2,371,413	1,695,177	208,751	176,906	4,427,804	3,294,361

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance-from-shore landings for data collected by the Service and States. Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States. (2) Less than .5 MT or \$500. (3) Data are confidential and included with other shellfish.

NOTE:—Data are preliminary. Totals may not agree due to roundings. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States. Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. Data do not include aquaculture products, except oysters or clams.

U.S. Commercial Landings

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 2000 (1)

Group / Species	Puerto Rico		Guam	
	Pounds	Dollars	Pounds	Dollars
Fish				
Ballyhoo	52,810	69,049	-	-
Barracuda	23,901	36,270	4,047	8,452
Billfish:				
Marlin	-	-	66,787	76,799
Sailfish	-	-	1,530	2,039
Spearfish	-	-	-	-
Dolphin (Mahi mahi)	134,851	270,376	74,477	159,859
Emperors	-	-	2,594	8,050
Goatfish	17,349	29,233	81	242
Groupers:				
Red hind	76,390	162,711	-	-
Nassau	12,763	23,165	-	-
Other	54,223	116,173	1,887	4,558
Grunts:				
Margate	847	1,091	-	-
Other	113,341	168,878	-	-
Hogfish	51,084	112,385	-	-
Jacks:				
Amberjack	-	-	788	2,125
Bigeye Scad	-	-	7,888	20,243
Rainbow Runner	-	-	3,235	6,704
Rudderfish	-	-	-	-
Other	81,701	116,628	2,142	5,338
Mackerel, king and cero	157,611	282,518	-	-
Milkfish	-	-	23	68
Mojarra	17,738	30,022	-	-
Mullet	51,356	64,837	43	114
Parrotfish	72,159	112,027	391	984
Rabbitfish	-	-	859	2,664
Scup or porgy	28,481	43,149	-	-
Sharks, other	40,111	61,971	199	596
Snappers:				
Ehu	-	-	523	2,086
Gindai (Flower Snap)	-	-	544	2,172
Kalikali	-	-	766	2,624
Lane	241,915	513,465	-	-
Lehi	-	-	1,212	4,840
Mutton	84,266	178,223	-	-
Onaga	-	-	8,611	36,826
Opakapaka	-	-	651	2,603
Silk	205,284	560,425	-	-
Uku (Gray Snapper)	-	-	647	2,113
Yellowtail	292,292	584,584	-	-
Other	79,580	167,118	370	1,069
Total snappers	903,337	2,003,815	13,324	54,333
Snook	48,322	82,510	-	-
Spanish sardine	24,944	30,432	-	-
Squirrelfish	26,089	31,307	-	-
Surgeonfishes:				
Unicornfish	-	-	-	-
Other	-	-	-	-
Tarpon	354	182	-	-
Tilapia	-	-	-	-
Triggerfish	37,720	61,672	-	-
Trunkfish (boxfish)	81,963	160,033	-	-

(Continued)

U.S. Commercial Landings

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 2000 (1) - Continued

Group / Species	Puerto Rico		Guam	
<u>Fish</u>	<u>Pounds</u>	<u>Dollars</u>	<u>Pounds</u>	<u>Dollars</u>
Tuna:				
Dogtooth	-	-	3283	4510
Kawakawa	-	-	-	-
Skipjack	-	-	135,472	172,542
Yellowfin	-	-	38,909	74,417
Unclassified	135,121	201,330	28	44
Total tuna	135,121	201,330	177,692	251,513
Wahoo	-	-	43,811	95,637
Wrasse (Hogfish)	-	-	1,059	2,616
Other marine finfishes	185,791	216,817	199,040	590,568
Other freshwater fish	-	-	-	-
Total fish	2,430,357	4,488,581	601,897	1,293,502
<u>Shellfish, et al</u>				
Crabs, other	1,605	23,758	27	78
Lobster, spiny	239,393	1,222,101	3,440	13,315
Conch (snail) meats	249,526	583,891	-	-
Oysters	2,116	5,713	-	-
Octopus	39,863	94,675	2,367	6,802
Shrimp	-	-	29	186
Shellfish, other	10,005	24,987	3	9
Total shellfish, et al.	542,508	1,955,125	5,866	20,390
Grand total	2,972,865	6,443,706	607,763	1,313,892

Group / Species	American Samoa		Northern Marianas Islands	
<u>Fish</u>	<u>Pounds</u>	<u>Dollars</u>	<u>Pounds</u>	<u>Dollars</u>
Barracudas	984	1,459	244	466
Billfishes:				
Blue marlin	36,516	30,226	3,608	5,838
Sailfish	1,448	1,288	-	-
Dolphin (mahimahi)	32,943	45,705	7,082	15,463
Emperors	8,371	16,743	10,057	28,363
Goatfish	-	-	1,540	4,228
Groupers:				
Lunartail	362	724	-	-
Other	2,672	5,316	2,748	6,560
Jacks:				
Amberjack	-	-	-	-
Bigeye Scad	180	350	23,256	64,765
Black jack	-	-	-	-
Rainbow runner	1,234	2,468	1,355	3,082
Rudderfish	92	184	853	2,549
Other	1,928	2,796	1,860	4,960
Moonfish (Opah)	1,878	3,756	-	-
Mullet	215	968	111	292
Oilfish	-	-	-	-
Parrotfishes	12,288	24,430	8,838	26,420
Rabbitfish	92	184	12,336	40,753
Snappers:				
Blue lined snapper	3,347	6,694	-	-
Ehu	1,630	4,801	-	-
Gindai (flower snapper)	-	-	214	571
Gray jobfish	3,660	7,321	-	-
Humpback	783	1,534	-	-
Kalikali	-	-	-	-

(Continued)

U.S. Commercial Landings

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 2000 (1) - Continued

Group / Species	American Samoa		Northern Marianas Islands	
<u>Fish</u>	<u>Pounds</u>	<u>Dollars</u>	<u>Pounds</u>	<u>Dollars</u>
Lehi (silverjaw)	444	887	1,649	4,986
Onaga	194	512	6,952	25,066
Opakapaka	350	700	1,600	4,590
Stone's snapper	-	-	-	-
Yellow opakapaka	45	89	-	-
Snappers, other	214	430	190	439
Total snappers	10,667	22,968	10,605	35,652
Squirrelfish	2,212	4,423	342	952
Sunfish (Mola mola)	-	-	-	-
Surgeonfishes:	-	-	-	-
Lined surgeon	-	-	-	-
Striped bristletooth	-	-	-	-
Unicornfishes	1,824	3,649	6,464	17,515
Yellowfin	-	-	-	-
Other	20,111	40,223	7,001	20,664
Swordfish	1,978	5,627	-	-
Tunas:				
Albacore	1,444,039	1,554,590	-	-
Bigeye	51,733	31,121	-	-
Dogtooth	184	251	2,189	4,261
Kawakawa	-	-	3,079	4,914
Skipjack	30,028	27,455	138,710	256,105
Yellowfin	171,765	159,208	17,383	34,925
Other	-	-	1,376	2,471
Total, tuna	1,697,749	1,772,625	162,737	302,676
Wahoo	44,586	48,538	4,029	9,428
Wrasses	-	-	733	2,198
Other finfishes	706	949	140,869	326,849
Total fish	1,881,036	2,035,599	406,668	919,673
<u>Shellfish, et al</u>				
Crabs	-	-	-	-
Lobster, spiny	1,450	4,809	3,003	16,886
Octopus	65	178	747	1,806
Shellfish, Other	-	-	-	-
Total shellfish, et al.	1,515	4,987	3,750	18,692
Grand total	1,882,551	2,040,586	410,418	938,365

(1) Data in this table are preliminary and represent the latest information available.

U.S. Commercial Landings

ESTIMATED U.S. AQUACULTURE PRODUCTION, 1994 - 1999

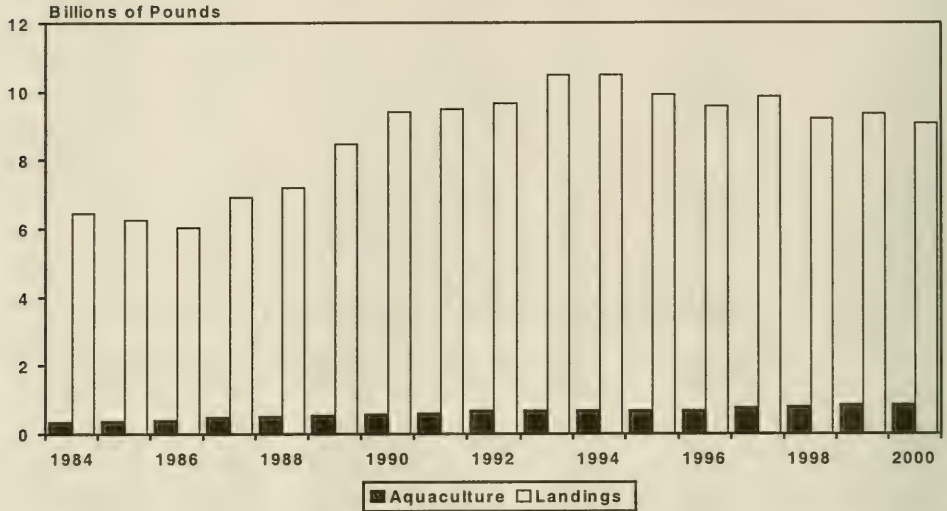
Species	1994			1995		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Finfish:						
Baitfish	21,709	9,847	68,714	21,759	9,870	72,522
Catfish	439,269	199,251	344,475	446,886	202,706	351,222
Salmon	24,714	11,210	61,915	31,315	14,204	75,991
Striped bass	7,625	3,459	18,835	8,315	3,772	21,156
Tilapia	12,980	5,888	16,225	15,075	6,838	22,613
Trout	52,075	23,621	52,569	55,934	25,371	61,447
Shellfish:						
Clams	4,872	2,210	14,023	4,325	1,962	19,709
Crawfish	49,080	22,263	26,994	58,146	26,375	34,714
Mussels	424	192	1,249	410	186	1,221
Oysters	28,016	12,708	69,928	23,221	10,533	70,628
Shrimp (SW)	4,409	2,000	17,637	2,205	1,000	8,818
Miscellaneous	20,462	9,282	58,545	23,359	10,596	75,243
Totals	665,635	301,930	751,109	690,950	313,413	815,284
Species	1996			1997		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Finfish:						
Baitfish	20,849	9,457	70,254	19,929	9,040	73,580
Catfish	472,123	214,154	364,951	524,949	238,115	372,497
Salmon	30,657	13,906	60,995	39,745	18,028	65,053
Striped bass	7,850	3,561	20,308	8,400	3,810	21,783
Tilapia	15,965	7,242	23,948	16,860	7,648	29,505
Trout	53,620	24,322	56,958	56,710	25,723	60,212
Shellfish:						
Clams	3,834	1,739	20,315	9,243	4,193	26,753
Crawfish	46,584	21,130	34,820	49,232	22,331	29,300
Mussels	986	447	5,085	597	271	3,365
Oysters	18,546	8,412	64,368	15,737	7,138	39,031
Shrimp (SW)	2,866	1,300	11,464	2,646	1,200	10,582
Miscellaneous	19,813	8,987	152,169	22,625	9,930	177,994
Totals	693,693	314,657	885,635	766,673	347,761	909,655
Species	1998			1999		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Finfish:						
Baitfish	16,389	7,434	57,392	16,389	7,434	57,392
Catfish	564,355	255,990	419,094	596,628	270,629	438,936
Salmon	32,017	14,523	62,694	39,114	17,742	76,778
Striped bass	9,385	4,257	24,128	9,734	4,415	21,927
Tilapia	18,191	8,251	27,287	17,750	8,051	26,625
Trout	55,103	24,995	59,710	60,283	27,344	64,954
Shellfish:						
Clams	9,735	4,416	29,612	10,683	4,846	42,051
Crawfish	37,945	17,212	23,649	42,889	19,454	28,267
Mussels	527	239	2,801	531	241	799
Oysters	18,157	8,236	47,951	18,662	8,465	55,635
Shrimp (SW)	4,409	2,000	17,637	4,625	2,098	13,706
Miscellaneous	23,495	10,657	166,688	24,694	11,201	160,010
Totals	789,708	358,209	938,643	841,982	381,921	987,080

NOTE:—Table may not add due to rounding. Clams, oysters and mussels are reported as meat weights (excludes shell) while other identified species such as shrimp and finfishes are reported as whole (live) weights. Some clam and oyster aquaculture production are reported with U.S. commercial landings. Weights and values represent the final sales of products to processors and dealers. (1) "Miscellaneous" includes ornamental/tropical fish, alligators, algae, aquatic plants, eels, scallops, crabs, and others. The high value and low production of "Miscellaneous" occurs because production value, but not weight, are reported for many species such as ornamental fishes. SW:—Saltwater.

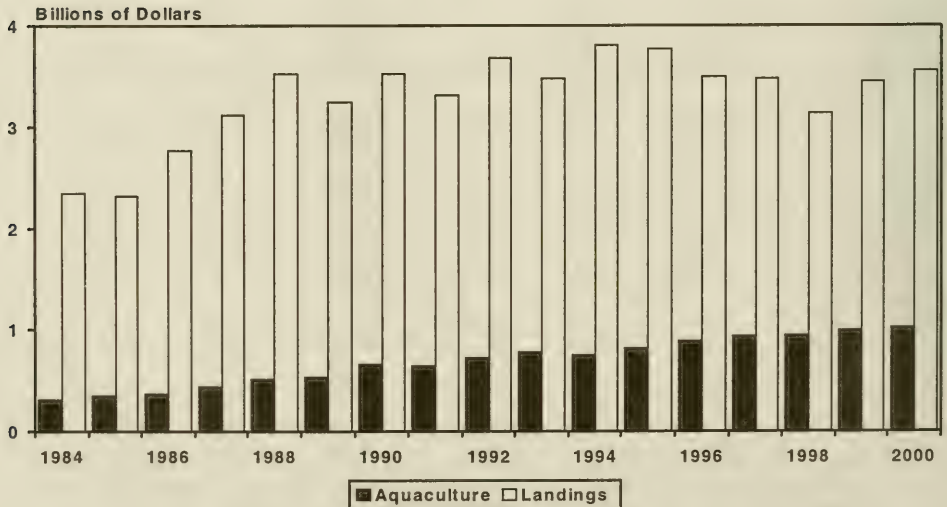
U.S. Commercial Landings

Volume of Domestic Commercial Landings and Aquaculture Production

Note: The 2000 aquaculture production is estimated



Value of Domestic Commercial Landings and Aquaculture Production

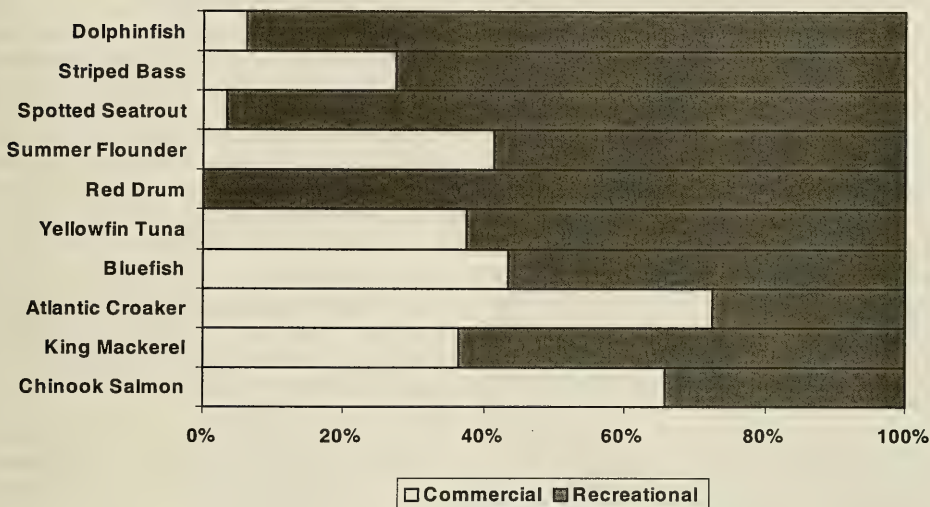


U.S. Commercial Landings

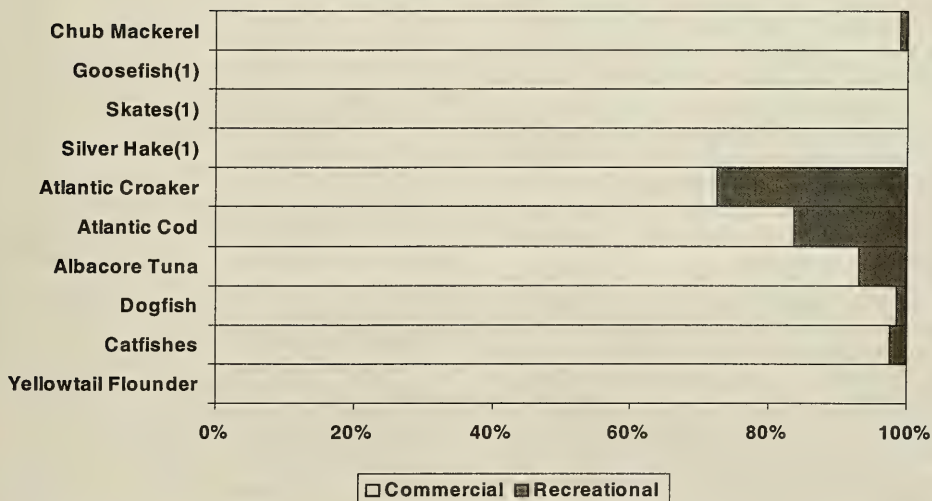
Comparisons between the top ten species in descending order of abundance by weight for U.S. commercial landings and recreational fish harvests. Does not include data for Alaska, Hawaii and Texas because no NMFS recreational surveys are conducted in those states. Menhaden, Pacific Hake, Atlantic Sea Herring and Pacific Sardine were excluded from commercial landings because they are industrial fisheries and recreational anglers do not target them.

Top Ten Recreational Species - Harvest (A1 + B2)

Versus Commercial Harvest - 2000



Top Ten Commercial Species Versus Recreational Harvest - 2000



(1) Less than 1 percent recreational

U.S. Marine Recreational Fisheries

DATA COLLECTION. Detailed information on marine recreational fishing is required to support a variety of fishery management and development purposes and is mandated by the Sustainable Fisheries Act, Public Law 94-265. In 1979, NMFS began the comprehensive Marine Recreational Fishery Statistics Survey (MRFSS). Although the recreational harvest is only about 6 percent of the total U.S. harvest of finfish for states covered by the MRFSS (see MRFSS coverage on page 28), the fishing activities of millions of marine anglers are important to monitor because they are directed at relatively few species. Data collected through the MRFSS show that recreational fishing significantly impacts the stocks of many marine finfish species. Recreational catches even surpass commercial landings of some species (see figure on preceding page).

METHODS. The MRFSS consists of a telephone survey of coastal county households and a field intercept survey of completed angler fishing trips. The telephone survey collects data on the number of marine recreational fishing trips by residents of coastal counties. The intercept survey collects data on the proportion of fishing trips by residents of non-coastal counties, the species composition of catches, catch rates by species, and lengths and weights of landed fish. These data are combined to produce estimates of catch and effort. Catch estimates are separated into two categories – harvested catch and catch released alive. Harvested catch includes landed fish, catch used for bait, and catch released dead. Whenever possible MRFSS field interviewers identify, count, weigh, and measure landed fish that are available in whole form (catch type A). Angler reports are obtained for catch released alive (catch type B2) and for all other harvested catch (catch type B1), such as catch released dead, used for bait, or landed as fillets. Catch estimates are stratified by subregion, state, wave (bimonthly sampling period), species, fishing mode (private/rental boat, party/charter boat, and shore), primary area fished, and catch type. In addition, economic data are obtained and estimates of participation are produced.

The MRFSS was conducted in 2000 in all coastal states except Texas, Alaska, and Hawaii. It was also conducted in Puerto Rico and the U.S. Virgin Islands for the first time since 1981. Sampling coverage varies across the time series (see MRFSS coverage on page 28). Detailed information and access to the data are available on the Fisheries Statistics and Economics web page (<http://www.st.nmfs.gov/st1/recreational/>). Data from other NMFS and state surveys (e.g. southeast head boats,

Texas, California Passenger Fishing Vessels, Oregon/Washington ocean boats, Pacific salmon, Alaska) are not included in this report.

DATA TABLES. The estimated harvests (numbers and weight of fish) for the continental U.S. (excluding Texas, Alaska, Hawaii, Puerto Rico, and the U.S. Virgin Islands) are presented for 128 commonly caught species. Numbers of fish harvested and released alive are also presented for many important species groups. Estimated harvests are presented by subregion and primary fishing area: inland [sounds, rivers, bays], state territorial seas [ocean to 3 miles from shore, except for Florida's Gulf coast, where state territorial seas extend to 10 miles from shore], and Exclusive Economic Zone (EEZ) [ocean from the outer edge of the state territorial seas to 200 miles from shore]. The total numbers of estimated trips and participants are presented by state.

2000 MRFSS DATA. In 2000, over 9 million people made 76 million marine recreational fishing trips to the Atlantic, Gulf and Pacific coasts. The estimated total marine recreational catch was 429 million fish, of which over 57 percent were released alive. The estimated total weight of harvested catch was 254 million pounds. The Atlantic coast accounted for the majority of total marine angling participation (53 percent), trips (61 percent), and catch (58 percent). The Gulf coast (excluding Texas, see MRFSS coverage page) accounted for 25 percent of participation, 27 percent of trips, and 35 percent of the catch. The Pacific coast accounted for about 22 percent of participants, 12 percent of trips, and 7 percent of the catch. Nationally, most (61 percent in numbers of fish) of the recreational catch came from inland waters, 26 percent from state territorial seas, and 13 percent from the EEZ. The majority of Atlantic and Gulf trips fished primarily in inland waters, while most of the Pacific trips fished in the state territorial seas.

ATLANTIC. In 2000, over 5.5 million marine recreational fishing participants took over 46 million trips and caught a total of more than 252 million fish. Twenty-four percent of the trips were made in east Florida, followed by 14 percent in New Jersey, 13 percent in North Carolina, 10 percent in Massachusetts, 10 percent in New York, 8 percent in Maryland, and 7 percent in Virginia. Together, Connecticut, Rhode Island, and South Carolina accounted for 9 percent of the trips (3 percent each), and Delaware, Maine, Georgia, and New Hampshire accounted for the remaining 5 percent. The most commonly caught non-bait species (in numbers of fish)

were Atlantic croaker, summer flounder, striped bass, black sea bass, and bluefish. The largest harvests by weight were striped bass, dolphin, yellowfin tuna, summer flounder, and bluefish.

The total annual catch of striped bass increased steadily and dramatically from 1.8 million fish in 1990 to 17.5 million fish in 1997. Although striped bass catch dropped to 16.6 million in 1998 and 14.2 million in 1999, it increased again in 2000 to 18.2 million fish. Over 89 percent of the striped bass caught in 2000 were released alive. Annual summer flounder catch has increased from 9.1 million fish in 1990 to over 24 million fish in 2000. Bluefish catch decreased from 16-18 million in 1990-1991 to levels varying between 9 and 13 million from 1992 through 1999, but reached 16 million again in 2000. Black sea bass catch, which has varied between 6 and 16 million fish from 1990 through 1999, exceeded 18 million in 2000.

The species most commonly caught on Atlantic coast trips that fished primarily in federally managed waters were black sea bass, Atlantic croaker, summer flounder, dolphin, bluefish, and Atlantic mackerel. Twenty-six percent of the total Atlantic catch came on saltwater trips that fished primarily in the state territorial seas, and 63 percent came on trips that fished primarily in inland waters.

GULF OF MEXICO. In 2000, over 2.6 million marine recreational fishing participants took over 20.4 million trips and caught a total of 149 million fish (excluding Texas). About 72 percent of the trips were made in west Florida, followed by 18 percent in Louisiana, 5 percent in Alabama, and 5 percent in Mississippi. The most commonly caught non-bait species (numbers of fish) were spotted seatrout (almost 19 percent of total Gulf catch), sand seatrout, red drum, white grunt, Atlantic croaker, red snapper, and gray snapper. The largest harvests by weight were for spotted seatrout, red drum, red snapper, sheepshead, dolphin, king mackerel, and sand seatrout.

Red snapper catches have varied over the last ten years between 1.5 (1991 and 1995) and 3.2 (1999) million fish, with a total catch near the 10-year mean (2.2 million) in 2000. King mackerel catches have varied between 420,000 (1999) and 750,000 (1991, 1996) over the last ten years, with a relatively low total catch of 450,000 in 2000. Spotted seatrout catches have varied between 19 million

(1993, 1994, 1996) and 26 million (1991) over the last ten years, with a new high of almost 28 million fish in 2000. Over the last ten years, red drum catches have varied between 5.9 million (1994) and 7.8 million (1992) fish, but catches in 2000 reached a new high of 8.5 million.

The species most commonly caught on Gulf of Mexico trips that fished primarily in federally managed waters were red snapper, white grunt, dolphin, black sea bass, and spotted seatrout. Twenty-seven percent of the total Gulf catch came on trips that fished primarily in the state territorial seas, and 64 percent came on trips that fished primarily in inland waters.

PACIFIC. In 2000, more than 2 million marine recreational fishing participants took 8.4 million trips and caught a total of almost 28 million fish. Seventy percent of the trips were made in CA, followed by 19 percent in WA, and 11 percent in OR. The most commonly caught non-bait species (in numbers of fish) were barred sand bass, kelp bass, surf smelt, black rockfish, California halibut, chub mackerel, Pacific barracuda, and lingcod. By weight, the largest harvests were yellowtail, black rockfish, California halibut, Pacific barracuda, barred sand bass kelp bass, and lingcod.

Total annual catch of lingcod, which has varied between 240,000 (1995) and 390,000 (1999) fish from 1993 through 1999, exceeded 540,000 fish in 2000. Most of this increase was due to fish released alive. Total black rockfish catch, which has varied between 600,000 (1997) and 1.2 million (1998) fish since 1993, exceeded 1.3 million fish in 2000.

The most commonly caught Pacific coast species in federally managed waters were barred sand bass, chub mackerel, Pacific barracuda, black rockfish, yellowtail rockfish, bocaccio, California scorpionfish, dolphin, and lingcod. Forty-seven percent of the total Pacific catch came from trips that fished primarily in the state territorial seas, and 36 percent came from trips that fished primarily in inland waters.

PUERTO RICO. In 2000, about 230,000 marine recreational participants took 1.2 million trips and caught a total of about 3.5 million fish. The most commonly caught non-bait species (in numbers of fish) were dolphin (182,000 fish) and lane snapper (126,000 fish). Estimated fishing participation, effort and catch data for Puerto Rico have not been included in the tables.

U.S. Marine Recreational Fisheries

Coverage of Marine Recreational Fishery Statistics Survey

1979-2000

The Marine Recreational Fishery Statistics Survey provides coverage of saltwater sport fishing (including estuarine and brackish water) from private/rental boats, charter and head boats, and the shore. In 2000, the Survey included the Atlantic coast (Maine-East Florida), Gulf coast (Louisiana-West Florida), Pacific coast (Washington through California), and Puerto Rico and U.S. Virgin Islands.



Care is advised when comparing catch estimates for the MRFSS time series because of differences in sampling coverage.

- In the South Atlantic and Gulf sub-regions (NC-LA) the MRFSS has not collected catch data from head boats since 1985, so estimates for these sub-regions now only include charter boats in the for-hire sector.
- Marine recreational fishing in Texas is monitored by the Texas Department of Parks and Wildlife and has not been surveyed by the MRFSS since 1985.
- Prior to 1998, on the Pacific coast, ocean boat trips and salmon trips were not sampled during certain waves because they were surveyed by state natural resource agencies.
- Alaska conducts an annual mail survey and has never been surveyed by the MRFSS.
- Hawaii and West Pacific U.S. territories have not been surveyed by the MRFSS since 1981.
- The U.S. Caribbean (Puerto Rico and U.S. Virgin Islands) was not surveyed between 1981 and 2000.

Historically, only about 5 percent of the annual recreational catch on the Atlantic and Gulf coasts is taken during Wave 1 (January - February). Costs to sample these months are very high due to low fishing activity. Therefore, in Jan/Feb of 1981 the MRFSS was not conducted in any region. In 1982, Jan/Feb data collection resumed on the Pacific and Gulf Coasts and also on the Atlantic Coast of Florida. With a few exceptions (GA 1985-1989, SC 1988, NC 1988-1992), the MRFSS has not been conducted in Jan/Feb on the Atlantic Coast north of Florida since 1980.

Exceptions to MRFSS Coverage:

Nov/Dec (ME & NH) - 1987 to present

Nov/Dec (OR) - 1994

Mar/Apr (ME & NH) - 1986 to present

All Waves (CA-WA) - 1990 to 1993

Jan/Feb (No. CA-OR) - 1994

All Waves (WA) - 1993 to 1994

Jan/Feb (So. CA-OR) - 1995

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY SPECIES, 1999 AND 2000

Species	1999			2000			Average (1996-00)
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds
Anchovies**							
Northern Anchovy	54	24	104	(1)	(1)	425	12
Other Anchovies	(1)	(1)	(1)	(1)	(1)	8	(1)
Barracudas	1,192	541	139	906	411	132	1,387
Bluefish	8,610	3,906	3,856	10,488	4,759	4,842	11,708
California Scorpionfish	297	135	280	199	90	173	245
Cartilaginous Fishes							
Dogfish Sharks**	123	56	61	306	139	72	369
Skates/Rays**	195	88	81	175	80	134	183
Other Sharks**	2,790	1,266	209	3,133	1,422	326	3,256
Catfishes**							
Freshwater Catfishes	343	156	249	365	165	231	563
Saltwater Catfishes	654	297	460	1,060	481	664	948
Cods And Hakes							
Atlantic Cod	2,599	1,179	375	4,907	2,226	776	3,230
Pacific Cod	(1)	(1)	(1)	(1)	(1)	(1)	3
Pacific Hake	2	1	3	(1)	(1)	(1)	2
Pacific Tomcod	(1)	(1)	1	1	(1)	6	2
Pollock	196	89	218	816	370	419	495
Red Hake	59	27	118	16	7	97	148
Other Cods/Hakes	121	55	66	455	207	143	176
Croakers							
California Corbina	15	7	17	6	3	7	21
Queenfish	18	8	122	36	16	122	24
White Croaker	157	71	301	138	63	355	288
Other Croakers	499	226	93	642	291	95	349
Dolphins**	13,423	6,090	2,065	15,855	7,194	2,463	15,384
Drums							
Atlantic Croaker	7,628	3,461	10,090	10,188	4,623	12,102	7,733
Black Drum	2,012	913	723	4,913	2,229	1,280	2,790
Kingfishes	2,187	992	4,118	2,835	1,286	5,291	2,068
Red Drum	10,475	4,753	2,448	15,461	7,015	3,579	12,400
Sand Seatrout	2,833	1,285	4,998	2,617	1,187	4,397	2,146
Silver Perch	101	46	373	92	42	628	95
Spot	1,664	755	3,734	2,009	912	4,787	2,300
Spotted Seatrout	13,546	6,146	10,603	16,256	7,376	12,619	12,213
Weakfish**	3,143	1,426	1,652	4,014	1,821	2,019	3,563
Other Drum	212	96	778	123	56	434	131
Eels**	12	5	14	16	7	54	12
Flounders							
California Halibut**	1,297	588	124	1,515	687	161	1,172
Gulf Flounder	229	104	162	272	123	165	217
Rock Sole	7	3	5	10	5	14	17
Sanddabs	82	37	225	225	102	591	150
Southern Flounder	1,456	661	958	1,617	734	993	1,421
Starry Flounder	8	4	11	11	5	6	11
Summer Flounder	8,382	3,803	4,123	15,857	7,195	7,513	11,701
Winter Flounder	768	348	724	1,967	892	1,420	1,345
Other Flounders**	676	307	168	496	225	251	631

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY SPECIES, 1999 AND 2000

Species	1999			2000			Average (1996-00)
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds
Greenlings							
Kelp Greenling	115	52	89	150	68	134	148
Lingcod	1,398	634	172	906	411	105	1,120
Other Greenlings	3	2	8	19	9	22	19
Grunts							
Pigfish	357	162	933	352	159	1,082	393
White Grunt	1,381	627	1,749	1,728	784	2,053	1,497
Other Grunts	300	136	577	153	70	591	354
Herrings**	648	294	23,278	542	246	28,663	1,033
Jacks							
Blue Runner	750	340	860	1,681	763	1,996	1,013
Crevalle Jack	1,316	597	612	1,704	773	584	1,589
Florida Pompano	593	269	407	755	342	623	536
Greater Amberjack	2,696	1,223	140	1,815	823	91	1,899
Yellowtail	807	366	56	2,333	1,059	166	2,562
Other Jacks	806	366	1360	591	268	1,777	462
Mulletts**	2,240	1,016	5,710	2,787	1,265	6,894	2,415
Pacific Barracuda	1,988	902	423	1,523	691	357	1,656
Porgies							
Pinfishes	1,532	695	5,112	2,339	1,061	6,668	1,863
Red Porgy	87	39	81	73	33	58	108
Scup**	1,886	856	3,251	5,181	2,351	6,903	2,260
Sheepshead	4,789	2,173	1,905	5,255	2,384	2,049	4,923
Other Porgies**	102	46	170	145	66	317	205
Puffers	59	27	175	106	48	208	99
Rockfishes							
Black Rockfish	1,706	774	956	2,571	1,166	1,336	1,815
Blue Rockfish	712	323	673	543	247	376	667
Bocaccio	312	141	92	257	117	148	205
Brown Rockfish	149	67	121	119	54	92	115
Canary Rockfish	271	123	163	227	103	126	207
Chillipepper Rockfish	11	5	44	101	46	71	38
Copper Rockfish	223	101	136	142	65	88	219
Gopher Rockfish	123	56	154	143	65	149	97
Greenspotted Rockfish	98	44	133	75	34	98	65
Olive Rockfish	76	34	68	114	52	65	91
Quillback Rockfish	78	35	42	58	27	28	75
Widow Rockfish	78	35	44	40	18	25	64
Yellowtail Rockfish	718	326	403	351	159	230	442
Other Rockfishes**	1,641	744	1,914	761	345	1,182	1,079
Sablefishes	(1)	(1)	(1)	2	1	1	6
Sculpins							
Cabezon	209	95	60	193	87	50	228
Sculpins	13	6	42	7	3	22	20
Sea Basses							
Barred Sand Bass	661	300	456	1,789	812	1,242	1,033
Black Sea Bass	2,245	1,019	2,000	4,589	2,082	4,386	3,700
Epinephelus Groupers**	1,405	637	213	2,292	1,040	348	1,323
Kelp Bass	338	154	236	1,017	461	654	696
Mycteroperca Groupers**	4,595	2,085	652	5,339	2,422	747	4,135
Spotted Sand Bass	38	17	30	97	44	77	62
Other Sea Basses	67	30	282	45	21	279	92

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY SPECIES, 1999 AND 2000

Species	1999			2000			Average (1996-00)
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds
Sea Chubs**							
Halfmoon	41	19	41	62	28	61	37
Opaleye	49	22	39	54	24	48	50
Other Sea Chubs	2	1	2	(1)	(1)	(1)	1
Searobins	78	35	122	92	42	164	146
Silversides							
Jacksmelt	102	46	272	114	52	267	161
Other Silversides	7	3	44	3	1	31	8
Smelts**							
Surf Smelt	28	13	1,217	128	58	1,777	221
Other Smelts	(1)	(1)	4	(1)	(1)	(1)	(1)
Snappers							
Gray Snapper	1,345	610	1,038	1,790	812	1,231	1,413
Lane Snapper	181	82	195	202	92	207	234
Red Snapper	4,651	2,110	1,266	3,463	1,571	836	3,958
Vermilion Snapper	541	245	540	377	171	366	397
Yellowtail Snapper	326	148	268	308	140	239	411
Other Snappers**	298	135	78	311	141	92	312
Sturgeons	617	280	19	339	154	19	529
Surfperches							
Barred Surfperch	158	72	210	50	23	92	253
Black Perch	27	12	38	34	15	50	51
Pile Perch	20	9	18	14	6	18	50
Redtail Surfperch	57	26	60	120	54	123	82
Shiner Perch	5	2	91	13	6	289	11
Silver Surfperch	29	13	86	4	2	15	18
Striped Seaperch	39	18	44	36	17	36	110
Walleye Surfperch	18	8	68	13	6	49	26
White Seaperch	9	4	21	6	3	7	11
Other Surfperches	53	24	65	30	14	87	56
Temperate Basses							
Striped Bass	14,409	6,538	1,451	17,578	7,975	1,996	15,134
White Perch	426	193	1,113	667	303	1,698	740
Other Temperate Basses	(1)	(1)	(1)	(1)	(1)	(1)	2
Toadfishes	(1)	(1)	9	(1)	(1)	3	1
Triggerfishes/Filefishes	757	343	390	550	250	258	803
Tunas And Mackerels							
Atlantic Mackerel	2,943	1,335	3,236	3,080	1,397	4,037	2,865
King Mackerel**	7,156	3,247	812	8,490	3,852	906	9,274
Little Tunny / Atl.Bonito**	2,633	1,195	382	2,239	1,016	340	2,947
Pacific Bonito**	5	2	2	164	74	87	206
Spanish Mackerel	3,597	1,632	2,540	4,614	2,094	2,981	3,510
Other Tunas/Mackerels**	17,592	7,982	1,359	21,507	9,758	1,508	17,182
Wrasses							
California Sheephead	182	83	63	164	74	82	158
Cunner	61	28	103	48	22	74	32
Tautog	2,532	1,149	688	3,284	1,490	823	2,536
Other Wrasses	182	83	97	86	39	48	161
Other Fishes**	9,854	4,471	6,759	13,183	5,982	20,634	10,295
Total Fish	198,695	90,146	135,681	254,225	115,349	184,534	--

(1) Number or pounds less than 1,000 or less than 1 metric ton.

NOTE:-- ** Fish included in these groups are not equivalent to those with similar names listed in the commercial tables.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 2000

Species	Charter boat			Private/Rental boat			Shore			Grand Total		
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Anchovies												
Northern Anchovy	-	-	-	(1)	(1)	7	(1)	(1)	418	(1)	(1)	425
Other Anchovies	-	-	-	-	-	-	(1)	(1)	8	(1)	(1)	8
Barracudas	462	210	50	304	138	42	(1)	(1)	8	906	411	131
Bluefish	1,991	903	503	6,241	2,831	2,455	2,257	1,024	1,884	10,489	4,758	4,842
California Scorpionfish	120	55	108	79	36	64	(1)	(1)	(1)	199	91	172
Cartilaginous Fishes												
Dogfish Sharks**	52	24	9	251	114	61	3	1	2	306	139	72
Skates/Rays**	12	5	2	63	29	54	100	46	78	175	80	134
Other Sharks**	425	193	34	2,352	1,067	225	355	161	66	3,132	1,421	325
Catfishes**												
Freshwater Catfishes	2	1	1	109	50	117	254	115	113	365	166	231
Saltwater Catfishes	5	2	4	585	265	351	470	213	310	1,060	480	665
Cods And Hakes												
Atlantic Cod	2,813	1,277	396	2,094	950	380	(1)	(1)	(1)	4,907	2,227	776
Pacific Cod	-	-	-	0	0	0	-	-	-	(1)	(1)	(1)
Pacific Hake	-	-	-	0	0	0	-	-	-	(1)	(1)	(1)
Pacific Tomcod	-	-	-	0	0	1	1	(1)	5	1	(1)	6
Pellock	52	24	34	180	82	319	584	265	67	816	371	420
Red Hake	16	7	87	0	0	10	-	-	-	16	7	97
Other Cods/Hakes	319	145	81	136	62	42	(1)	(1)	21	455	207	144
Croakers												
California Corbina	(1)	(1)	1	(1)	(1)	(1)	6	3	6	8	3	7
Queerfish	1	(1)	1	9	4	20	26	12	101	36	16	122
White Croaker	16	7	33	56	26	159	66	30	162	138	63	354
Other Croakers	186	84	13	426	193	48	31	14	33	643	291	94
Dolphins**	5,904	2,679	848	9,951	4,515	1,615	-	-	-	15,855	7,194	2,463
Drums												
Atlantic Croaker	885	402	1,087	8,279	3,756	9,007	1,025	465	2,008	10,189	4,623	12,102
Black Drum	95	43	20	3,346	1,518	834	1,472	668	426	4,913	2,229	1,280
Kingfishes	26	12	38	1,372	623	2,373	1,436	652	2,880	2,834	1,287	5,291
Red Drum	1,502	681	292	12,174	5,523	2,920	1,785	810	368	15,461	7,014	3,580
Sand Seatirot	93	42	131	1,384	628	2,370	1,139	517	1,895	2,616	1,187	4,396
Silver Perch	(1)	(1)	(1)	6	3	48	86	39	580	92	42	628
Spot	83	38	179	1,246	565	2,660	681	309	1,947	2,010	912	4,786
Spotted Seatirot	1,780	808	956	13,352	6,058	10,732	1,124	510	930	16,256	7,376	12,618
Weakfish**	142	64	105	3,317	1,505	1,729	555	252	185	4,014	1,821	2,019
Other Drum	(1)	(1)	1	107	49	373	16	7	61	123	56	435
Eels**	(1)	(1)	1	2	1	7	14	6	46	16	7	54

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A-B1), BY MODE OF FISHING AND SPECIES GROUP, 2000

Species	Charter boat				Private/Rental boat				Shore				Grand Total			
	Thousand pounds	Metric tons	Total Numbers (thousands)		Thousand pounds	Metric tons	Total Numbers (thousands)		Thousand pounds	Metric tons	Total Numbers (thousands)		Thousand pounds	Metric tons	Total Numbers (thousands)	
Flounders																
California Halibut**	237	107	22		1,211	549	131		68	31	8		1,516	687	161	
Gulf Flounder	15	7	10		183	83	108		74	34	46		272	124	164	
Rock Sole	1	(1)	2		7	3	8		2	1	3		10	4	13	
Sanddabs	142	64	373		70	32	182		13	6	36		225	102	591	
Southern Flounder	34	15	17		1,222	555	773		361	164	203		1,617	734	993	
Starry Flounder	2	1	1		6	3	4		3	1	2		11	5	7	
Summer Flounder	1,466	665	624		13,399	6,079	6,339		992	450	550		15,857	7,194	7,513	
Winter Flounder	102	46	78		1,440	654	1,037		425	193	304		1,967	893	1,419	
Other Flounders**	222	101	14		267	121	198		7	3	39		496	225	251	
Greenlings																
Kelp Greenling	21	10	12		96	44	77		33	15	45		150	69	134	
Lingcod	262	119	30		608	276	71		37	17	4		907	412	105	
Other Greenlings	0	0	0		1	1	2		18	8	21		19	9	23	
Grunts																
Pigfish	1	0	1		254	115	750		97	44	331		352	159	1,082	
White Grunt	210	95	224		1,432	650	1,701		86	39	129		1,728	784	2,054	
Other Grunts	3	1	10		62	28	350		88	40	231		153	69	591	
Herrings**	0	0	29		318	144	17,434		224	102	11,200		542	246	28,663	
Jacks																
Blue Runner	14	6	14		385	175	334		1,283	582	1,647		1,682	763	1,995	
Creville Jack	58	26	7		870	395	339		776	352	238		1,704	773	584	
Florida Pompano	19	8	12		225	102	142		511	232	469		755	342	623	
Greater Amberjack	1,054	478	56		677	307	32		84	38	4		1,815	823	92	
Yellowtail	1,321	599	89		1,012	459	77		-	-	-		2,333	1,058	166	
Other Jacks	190	86	56		196	89	469		206	93	1,252		592	268	1,777	
Mullet**	(1)	(1)	8		1,900	862	3,600		887	403	3,286		2,787	1,265	6,894	
Pacific Barracuda	1,246	565	293		276	125	64		(1)	(1)	(1)		1,522	690	357	
Porgies																
Finfishes	17	8	34		1,140	517	3,443		1,183	537	3,191		2,340	1,062	6,668	
Red Porgy	35	16	38		38	17	21		-	-	-		-	-	33	
Scup**	784	356	1,093		4,063	1,843	5,292		334	151	518		5,181	2,350	6,903	
Sheepshead	114	52	40		4,134	1,876	1,587		1,007	457	422		5,255	2,385	2,049	
Other Porgies**	16	7	103		80	36	111		48	22	102		144	65	316	
Puffers	(1)	(1)	1		37	17	90		68	31	116		105	48	207	

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 2000

Species	Charter boat			Private/Rental boat			Shore			Grand Total		
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Rockfishes												
Black Rockfish	1,366	620	677	1,175	533	639	30	13	19	2,571	1,166	1,335
Blue Rockfish	370	168	235	188	76	135	6	3	6	544	247	376
Bocaccio	224	102	128	32	14	20	1	1	(1)	257	116	148
Brown Rockfish	57	26	42	61	28	49	1	1	1	119	55	92
Canary Rockfish	181	82	96	46	21	30	-	-	-	227	103	126
Chilepepper Rockfish	87	40	62	14	6	9	-	-	-	101	46	71
Copper Rockfish	63	28	40	78	36	48	1	1	1	142	65	89
Gopher Rockfish	96	44	92	46	21	58	-	-	-	142	65	150
Greenspotted Rockfish	59	27	70	16	7	28	-	-	-	75	34	98
Olive Rockfish	95	43	52	19	8	13	(1)	(1)	(1)	114	51	65
Quillback Rockfish	23	10	12	34	16	16	1	1	1	58	27	29
Widow Rockfish	33	15	22	7	3	3	-	-	-	40	18	25
Yellowtail Rockfish	320	145	207	31	14	23	(1)	(1)	(1)	351	159	230
Other Rockfishes**	363	165	746	392	178	430	6	3	6	761	346	1,182
Sablefishes	2	1	1	-	-	-	-	-	-	2	1	1
Sculpins												
Cabezon	61	28	13	107	49	24	24	11	13	192	88	50
Sculpins	(1)	(1)	(1)	3	1	2	4	2	20	7	3	22
Sea Bases												
Barred Sand Bass	1,041	472	775	738	335	456	10	5	10	1,789	812	1,241
Black Sea Bass	2,073	941	1,768	2,348	1,066	2,444	168	76	174	4,589	2,083	4,386
Epinephelus Groupers**	746	338	120	1,546	701	228	(1)	(1)	(1)	2,292	1,039	348
Kelp Bass	483	219	364	531	241	288	2	1	1	1,016	461	653
Myxoperca Groupers**	1,437	652	184	3,826	1,736	554	76	34	9	5,339	2,422	747
Spotted Sand Bass	1	(1)	(1)	88	40	70	8	4	6	97	44	76
Other Sea Bases	1	(1)	10	30	14	185	15	7	84	46	21	279
Sea Chubs**												
Hellgram	51	23	52	8	3	7	3	2	3	62	28	62
Opaleye	2	1	2	41	19	29	10	5	17	53	25	48
Other Sea Chubs	-	-	-	-	-	-	(1)	(1)	(1)	(1)	(1)	(1)
Seaborns	(1)	(1)	5	82	37	130	10	5	29	92	42	164
Silversides												
Jacksmelt	(1)	(1)	(1)	37	17	62	76	35	205	113	52	267
Other Silversides	-	-	-	(1)	(1)	5	2	1	26	2	1	31
Surf Smelt	-	-	-	(1)	(1)	1	127	58	1,776	127	58	1,777

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 2000

Species	Charter boat			Private/Rental boat			Shore			Grand Total		
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Snappers												
Gray Snapper	239	109	108	1,231	558	836	320	145	286	1,790	812	1,230
Lane Snapper	50	23	43	145	66	157	7	3	7	202	92	207
Red Snapper	1,513	687	440	1,950	885	395	(1)	(1)	(1)	3,463	1,572	835
Vermilion Snapper	186	85	191	191	87	175	-	-	-	377	172	366
Yellowtail Snapper	60	27	45	229	104	179	19	9	15	308	140	239
Other Snappers**	66	30	18	235	107	70	10	5	4	311	142	92
Surgeons	15	7	1	258	117	15	66	30	3	339	154	19
Surperches												
Barred Surperch	-	-	-	(1)	(1)	(1)	50	23	92	50	23	92
Black Perch	(1)	(1)	(1)	14	7	20	20	9	30	34	16	50
Pile Perch	-	-	-	3	2	5	11	5	13	14	7	18
Redtail Surperch	-	-	-	1	0	1	119	54	122	120	54	123
Shiner Perch	-	-	-	0	0	14	13	6	276	13	6	290
Silver Surperch	-	-	-	-	-	-	4	2	15	4	2	15
Striped Seaperch	-	-	-	3	1	3	33	15	33	36	16	36
Walleye Surperch	-	-	-	2	1	4	11	5	44	13	6	48
White Seaperch	(1)	(1)	(1)	(1)	(1)	(1)	6	3	7	6	3	7
Other Surperches	(1)	(1)	1	8	4	13	21	10	73	29	14	87
Temperate Basses												
Striped Bass	3,924	1,780	366	12,253	5,560	1,468	1,401	635	162	17,578	7,975	1,996
White Perch	5	2	16	592	269	1,454	70	32	229	667	303	1,699
Other Temperate Basses	-	-	-	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Toadfishes	(1)	(1)	(1)	(1)	(1)	1	(1)	(1)	3	(1)	(1)	4
Triggerfishes/Fliefishes	194	88	93	329	149	151	27	12	13	550	249	257
Tunas And Mackerels												
Atlantic Mackerel	173	78	248	2,640	1,198	3,334	267	121	456	3,080	1,397	4,038
King Mackerel**	2,444	1,109	282	5,877	2,667	591	168	76	33	8,489	3,852	906
Little Tunny/Atlantic Bonito**	1,004	456	157	1,040	472	148	195	88	35	2,239	1,016	340
Pacific Bonito**	110	50	58	50	23	26	3	1	2	163	74	86
Spanish Mackerel	442	201	288	2,443	1,108	1,546	1,729	785	1,146	4,614	2,094	2,980
Other Tunas/Mackerels**	10,003	4,539	606	11,255	5,107	636	248	112	267	21,506	9,758	1,503
Wrasses												
California Sheephead	63	28	43	99	45	38	2	1	2	164	74	83
Cunner	1	(1)	2	6	3	10	41	19	63	48	22	75
Tautog	418	189	100	2,584	1,173	643	282	128	81	3,284	1,490	824
Other Wrasses	(1)	(1)	(1)	82	37	43	4	2	4	86	39	47
Other Fishes**	1,416	642	269	10,239	4,646	2,436	1,529	694	17,929	13,184	5,982	20,634
Grand Total	56,129	25,464	17,454	168,293	76,364	104,187	29,798	13,526	62,888	254,220	115,354	184,529

(1) Number or pounds less than 1,000 or less than 1 metric ton.

NOTE:- ** Fish included in these groups are not equivalent to those with similar names listed in the commercial tables.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B*1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 2000

Species	Inland			Distance from U.S. shores (State Territorial Sea)			3 to 200 miles (Exclusive Economic Zone)			Grand Total		
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Anchovies												
Northern Anchovy	(1)	(1)	139	(1)	(1)	286	-	-	-	(1)	(1)	425
Other Anchovies	-	-	-	(1)	(1)	8	-	-	-	(1)	(1)	8
Baracaudas	117	53	36	310	141	42	479	217	54	906	411	132
Bluefish	4,584	2,080	2,269	4,119	1,869	2,074	1,786	810	499	10,489	4,759	4,842
California Scorpionfish	8	3	9	155	70	133	37	17	31	200	90	173
Cartilaginous Fishes												
Dogfish Sharks**	198	90	45	55	25	14	53	24	13	306	139	72
Skates/Rays**	128	58	105	48	22	26	(1)	(1)	4	176	80	135
Other Sharks**	828	376	129	576	261	128	1,729	784	70	3,133	1,421	327
Cartfishes**												
Freshwater Cartfishes	365	165	227	(1)	(1)	3	-	-	-	365	165	230
Saltwater Cartfishes	658	299	403	385	175	252	17	8	10	1,060	482	665
Cods And Hakes												
Atlantic Cod	357	162	52	595	270	88	3,955	1,794	637	4,907	2,226	777
Pacific Cod	(1)	(1)	(1)	-	-	-	-	-	-	(1)	(1)	(1)
Pacific Hake	-	-	-	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pacific Tomcod	1	(1)	6	-	-	-	-	-	-	1	(1)	6
Pollock	628	285	201	111	50	141	77	35	77	816	370	419
Red Hake	-	-	-	(1)	(1)	80	16	7	17	16	7	97
Other Cods/Hakes	40	18	29	3	1	1	413	187	114	456	206	144
Croakers												
California Corbina	1	1	3	5	2	4	-	-	-	6	3	7
Queenfish	14	6	33	22	10	89	(1)	(1)	(1)	36	16	122
White Croaker	80	36	192	50	23	139	8	4	24	138	63	355
Other Croakers	43	20	43	564	256	50	34	16	2	641	292	95
Dolphins**	-	-	-	1,485	674	286	14,370	6,520	2,197	15,855	7,194	2,463
Drums												
Atlantic Croaker	8,857	4,019	10,631	467	212	696	865	392	775	10,189	4,623	12,102
Black Drum	3,688	1,673	968	1,169	530	299	56	26	14	4,913	2,229	1,281
Kingfishes	1,073	487	2,107	1,732	786	3,127	30	13	57	2,835	1,286	5,291
Red Drum	12,805	5,810	3,104	2,342	1,063	437	314	142	38	15,461	7,015	3,579
Sand Seatrout	1,704	773	3,154	853	387	1,168	59	27	74	2,616	1,187	4,396
Silver Perch	12	5	148	80	36	480	(1)	(1)	(1)	92	41	628
Spot	1,503	682	3,729	490	222	1,018	16	7	40	2,009	911	4,787
Spotted Seatrout	12,944	5,873	10,680	3,089	1,401	1,804	224	102	134	16,257	7,376	12,618
Weakfish**	2,960	1,343	1,479	846	384	428	208	95	112	4,014	1,822	2,019
Other Drum	43	19	167	80	36	265	(1)	(1)	2	123	55	434
Eels**	16	7	53	(1)	(1)	(1)	(1)	(1)	1	16	7	54

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 2000

Species	Distance from U.S. shores						Grand Total					
	Inland			0 to 3 miles (2) (State Territorial Sea)			3 to 200 miles (Exclusive Economic Zone)					
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Flounders												
California Halibut**	418	190	51	998	453	101	100	45	9	1,516	688	161
Gulf Flounder	132	60	87	87	39	53	53	24	25	272	123	165
Rock Sole	9	4	12	1	(1)	2	(1)	(1)	1	10	4	15
Sanddabs	50	23	109	33	15	113	142	64	369	225	102	591
Southern Flounder	1,389	630	849	208	94	130	21	9	13	1,618	733	992
Slurry Flounder	4	2	3	6	3	3	1	(1)	(1)	11	5	6
Summer Flounder	8,594	3,899	4,290	5,528	2,508	2,377	1,734	787	846	15,856	7,194	7,513
Winter Flounder	1,369	621	983	577	262	421	20	9	16	1,966	892	1,420
Other Flounders**	135	61	81	54	24	149	308	140	21	497	225	251
Greenlings												
Kelp Greenling	95	43	94	45	20	37	10	5	4	150	68	135
Lingcod	228	103	23	494	224	62	185	84	20	907	411	105
Other Greenlings	7	3	11	12	6	12	(1)	(1)	(1)	19	9	23
Grunts												
Pigfish	248	113	701	85	38	301	18	8	80	351	159	1,082
White Grunt	228	103	287	293	133	385	1,207	548	1,381	1,728	784	2,053
Other Grunts	84	38	166	55	25	216	15	7	209	154	70	591
Herrings**	492	223	19,579	42	19	7,060	9	4	2,024	543	246	28,663
Jacks												
Blue Runner	228	103	214	1,278	580	1,628	175	79	154	1,681	762	1,996
Creville Jack	949	431	410	677	307	165	79	36	9	1,705	774	584
Florida Pompano	272	123	167	482	219	456	1	(1)	1	755	342	624
Greater Amberjack	63	29	2	172	78	10	1,580	717	79	1,815	824	91
Yellowtail	(1)	(1)	(1)	1,440	653	98	893	405	68	2,333	1,058	166
Other Jacks	100	45	134	186	85	1,286	305	138	357	591	268	1,777
Mullet**	2,118	961	5,127	666	302	1,735	4	2	33	2,788	1,265	6,895
Pacific Barracuda	27	12	7	548	249	121	947	430	229	1,522	691	357
Porgies												
Pinfishes	1,556	706	4,455	684	310	1,883	99	45	331	2,339	1,061	6,669
Red Porgy	-	-	-	36	16	15	38	17	42	74	33	57
Scup**	3,724	1,690	5,077	1,069	485	1,250	388	176	575	5,181	2,351	6,902
Sheepshead	3,726	1,691	1,506	1,414	642	504	115	52	39	5,255	2,385	2,049
Other Porgies**	33	15	68	50	22	164	62	28	86	145	65	318
Puffers	32	15	74	69	31	122	5	2	12	106	48	208

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 2000

Species	Inland			Distance from U.S. shores 0 to 3 miles (2) (State Territorial Sea)			3 to 200 miles (Exclusive Economic Zone)			Grand Total	
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons
Rockfishes											
Black Rockfish	77	35	47	1,931	876	1,025	562	255	263	2,570	1,166
Blue Rockfish	7	3	7	405	184	302	131	60	67	543	247
Bocaccio	2	1	1	45	20	32	210	95	115	257	116
Brown Rockfish	14	6	10	88	40	72	17	8	11	119	54
Canary Rockfish	2	1	1	109	50	73	116	52	52	227	103
Chilepepper Rockfish	-	-	-	2	1	6	99	45	65	101	46
Copper Rockfish	43	19	25	81	37	49	18	8	14	142	64
Greenspotted Rockfish	(1)	(1)	(1)	130	59	130	13	6	19	143	65
Olive Rockfish	-	-	-	12	6	18	63	28	80	75	34
Quillback Rockfish	(1)	(1)	(1)	52	23	33	62	28	32	114	51
Rockfishes	26	12	12	25	11	13	8	3	4	59	26
Widow Rockfish	-	-	-	3	1	4	38	17	22	41	18
Yellowtail Rockfish	1	(1)	(1)	89	41	69	261	119	161	351	160
Other Rockfishes**	9	4	5	432	196	711	320	145	466	761	345
Sablefishes	-	-	-	-	-	-	2	1	1	2	1
Sculpins											
Cabezon	31	14	6	147	67	40	15	7	4	193	88
Sculpins	6	3	14	1	1	8	(1)	(1)	(1)	7	4
Sea Basses											
Barred Sand Bass	135	61	90	924	419	618	731	332	533	1,790	812
Black Sea Bass	561	254	636	957	434	929	3,071	1,393	2,821	4,589	2,081
Epinephelus Groupers**	16	7	4	148	67	23	2,127	965	321	2,291	1,039
Kelp Bass	20	9	14	924	419	589	72	33	51	1,016	461
Mycteroperca Groupers**	372	169	47	994	447	156	3,983	1,807	544	5,339	2,423
Spotted Sand Bass	94	43	74	3	1	3	(1)	(1)	(1)	97	44
Other Sea Basses	13	6	51	14	7	106	18	8	123	45	21
Sea Chubs**											
Halfmoon	3	1	2	59	27	59	(1)	(1)	(1)	62	28
Opaleye	9	4	17	45	20	31	-	-	-	54	24
Other Sea Chubs	(1)	(1)	(1)	-	-	-	-	-	-	(1)	(1)
Seabobins	53	24	84	37	17	74	1	1	7	91	42
Silversides											
Jacksmelt	50	23	127	63	29	140	(1)	(1)	1	113	52
Other Silversides	1	1	20	1	1	11	-	-	-	2	2
Surf Smelt	116	53	1,638	12	5	139	-	-	-	128	58

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 2000

Species	Distance from U.S. shores				3 to 200 miles (Exclusive Economic Zone)				Grand Total	
	Inland		0 to 3 miles (2) (State Territorial Sea)		Thousand pounds		Metric tons		Thousand pounds	Metric tons
	Thousand pounds	Metric tons	Total Numbers (thousands)	Total Numbers (thousands)	Thousand pounds	Metric tons	Thousand pounds	Metric tons	Thousand pounds	Metric tons
Snappers										
Gray Snapper	597	271	575	389	682	309	267	812	1,790	812
Lane Snapper	27	12	28	35	141	64	144	202	202	91
Red Snapper	34	15	7	511	2,918	1,324	682	1,571	3,463	1,571
Vermilion Snapper	(1)	(1)	(1)	8	359	163	342	171	377	171
Yellowtail Snapper	28	13	63	29	216	98	164	140	307	140
Other Snappers**	17	8	10	112	51	23	54	142	311	142
Surgeons	333	151	19	7	182	83	-	154	340	154
Surperches										
Barred Surperch	(1)	(1)	1	22	-	-	-	22	49	22
Black Perch	14	7	26	9	-	-	-	16	34	16
Pile Perch	14	6	17	(1)	-	-	-	6	14	6
Redtail Surperch	51	23	49	68	31	74	-	54	119	54
Shiner Perch	12	6	267	(1)	23	-	-	6	12	6
Silver Surperch	(1)	(1)	1	4	2	15	-	2	4	2
Striped Seaperch	13	6	15	24	11	21	-	17	37	17
Walleye Surperch	3	2	9	10	4	-	-	6	13	6
White Seaperch	6	3	6	(1)	1	(1)	-	3	6	3
Other Surperches	8	4	16	22	10	71	-	14	30	14
Temperate Basses										
Striped Bass	8,109	3,679	1,247	7,436	3,374	588	161	7,975	17,577	7,975
White Perch	667	303	1,692	(1)	6	-	-	303	667	303
Other Temperate Basses	(1)	(1)	(1)	-	(1)	(1)	(1)	(1)	(1)	(1)
Toadfishes	(1)	(1)	3	(1)	1	(1)	(1)	(1)	(1)	(1)
Triggrifishes/Flefishes	34	16	21	95	43	50	187	250	550	250
Tunas And Mackerels										
Atlantic Mackerel	1,388	630	1,483	1,225	556	1,920	634	1,398	3,080	1,398
King Mackerel**	64	29	9	2,204	1,000	280	617	3,852	8,490	3,852
Little Tunny/Atlantic Bonito**	30	14	5	790	358	128	206	1,016	2,239	1,016
Pacific Bonito**	4	2	2	152	69	82	3	75	164	75
Spanish Mackerel	1,490	676	937	2,465	1,118	1,698	346	2,093	4,614	2,093
Other Tunas/Mackerels**	1,869	848	180	1,084	492	419	909	9,758	21,507	9,758
Wrasses										
California Sheephead	2	1	2	126	57	61	19	74	163	74
Cunner	6	3	12	41	19	58	4	23	48	23
Tautog	1,473	668	380	1,436	652	362	82	1,490	3,283	1,490
Other Wrasses	3	1	4	33	15	15	29	39	87	39
Other Fishes**	5,168	2,345	18,356	4,895	2,221	1,766	512	5,982	13,183	5,982
Grand Total	103,090	46,775	113,037	68,078	30,887	48,343	23,168	115,346	254,227	115,346

(1) Number or pounds less than 1,000 or less than 1 metric ton.

(2) Except West Florida where the state territorial seas extend 0 to 10 miles.

NOTE:- ** Fish included in these groups are not equivalent to those with similar names listed in the commercial tables.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1991-2000

Year	Barracudas			Bluefish		
	Pounds	Number	Number	Pounds	Number	Number
	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
1991	1,349	227	755	33,957	12,420	6,831
1992	1,105	173	627	24,775	7,479	4,511
1993	1,323	196	592	20,636	5,917	4,384
1994	1,656	211	695	15,988	6,056	6,349
1995	1,627	246	673	14,897	5,411	5,552
1996	1,956	229	616	12,116	4,426	5,591
1997	1,718	162	437	14,555	5,585	7,609
1998	1,162	150	396	12,774	4,430	5,340
1999	1,192	139	393	8,610	3,856	8,022
2000	906	132	368	10,488	4,842	11,109
Year	Cartilaginous Fishes			Catfishes		
	Pounds	Number	Number	Pounds	Number	Number
	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
1991	2,466	682	4,067	3,770	2,479	16,741
1992	5,074	544	4,113	2,180	1,704	12,862
1993	5,294	646	4,708	2,158	1,764	12,017
1994	4,349	596	5,903	1,886	1,595	14,223
1995	9,953	602	5,449	1,565	1,259	13,496
1996	4,954	557	6,107	1,585	1,008	8,334
1997	4,048	565	6,791	1,886	916	8,573
1998	3,312	523	6,787	1,663	973	7,961
1999	3,108	351	6,181	997	709	7,702
2000	3,614	532	8,581	1,425	895	11,016
Year	Cods and Hakes			Dolphins		
	Pounds	Number	Number	Pounds	Number	Number
	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
1991	10,561	2,802	951	17,205	2,618	524
1992	2,994	1,178	473	9,788	1,318	166
1993	7,484	1,953	1,477	10,894	1,762	177
1994	5,123	1,636	1,590	12,795	2,215	236
1995	6,019	1,648	1,600	19,565	2,268	337
1996	3,906	877	832	12,508	1,668	241
1997	3,651	1,043	782	23,015	2,283	234
1998	3,551	849	1,049	12,121	1,889	187
1999	2,977	781	974	13,423	2,065	217
2000	6,195	1,441	1,977	15,855	2,463	300

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1991-2000

Year	Drums			Flounders		
	<u>Pounds</u> <u>harvested</u> (thousand)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)	<u>Pounds</u> <u>harvested</u> (thousand)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)
1991	40,235	49,310	56,405	13,136	10,954	12,772
1992	35,270	40,647	35,462	10,101	7,303	8,775
1993	33,673	38,143	39,676	13,252	10,525	20,420
1994	38,698	48,715	48,958	13,815	9,890	15,376
1995	42,200	41,412	41,611	11,270	6,666	16,079
1996	39,059	35,128	38,042	14,858	10,526	16,087
1997	44,586	39,757	50,684	16,967	10,286	16,849
1998	41,245	36,520	44,142	16,614	9,207	19,214
1999	43,801	39,517	49,966	12,905	6,500	19,855
2000	58,508	47,136	61,165	21,970	11,114	21,243

Year	Grunts			Herrings		
	<u>Pounds</u> <u>harvested</u> (thousand)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)	<u>Pounds</u> <u>harvested</u> (thousand)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)
1991	3,176	5,125	10,713	3,082	31,300	2,641
1992	2,979	4,831	6,757	2,034	23,974	4,959
1993	2,347	4,462	7,107	753	28,244	6,499
1994	2,890	5,632	8,256	762	26,411	12,137
1995	3,111	5,534	7,868	976	26,010	4,947
1996	2,449	3,962	6,395	1,096	22,735	8,402
1997	2,596	4,558	6,798	1,913	36,824	3,966
1998	1,903	3,436	5,805	964	26,927	7,316
1999	2,038	3,259	7,210	648	23,278	7,625
2000	2,233	3,726	6,256	542	28,663	7,744

Year	Jacks			Mullet		
	<u>Pounds</u> <u>harvested</u> (thousand)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)	<u>Pounds</u> <u>harvested</u> (thousand)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)
1991	7,479	5,185	5,240	5,036	4,883	796
1992	5,935	5,550	6,017	5,185	5,240	331
1993	8,423	5,783	6,659	2,389	3,947	239
1994	6,270	4,151	7,197	3,095	3,893	495
1995	4,878	3,318	5,630	2,115	4,180	594
1996	6,057	3,625	5,091	1,902	2,796	937
1997	8,179	4,954	7,179	2,473	2,857	401
1998	10,218	4,200	7,959	2,673	3,240	516
1999	6,968	3,435	6,775	2,240	5,710	904
2000	8,879	5,237	7,530	2,787	6,894	2,115

See footnotes at end of page.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1991-2000

Year	Porgies			Puffers		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
1991	14,608	23,440	14,999	302	830	2,066
1992	13,390	17,502	12,316	359	743	1,357
1993	11,373	15,738	10,584	167	338	986
1994	10,055	13,659	13,049	97	248	893
1995	10,982	14,696	12,175	132	255	694
1996	9,180	13,475	11,115	115	247	579
1997	8,495	13,113	14,589	153	284	762
1998	7,733	10,777	13,803	63	148	615
1999	8,396	10,519	12,630	59	175	1,117
2000	12,993	15,995	16,418	106	208	1,145

Year	Sculpins			Sea Basses		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
1991	2	2	53	10,401	9,003	14,985
1992	7	9	45	9,759	6,628	12,587
1993	278	245	858	14,289	10,715	13,853
1994	187	87	289	11,787	7,921	14,503
1995	191	140	453	15,323	10,970	17,394
1996	294	164	386	10,893	7,413	12,838
1997	213	138	468	11,315	7,927	15,895
1998	311	129	319	8,478	3,560	11,888
1999	222	102	228	9,349	3,869	14,627
2000	200	72	453	15,168	7,733	26,068

Year	Searobins			Snappers		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)	<u>harvested</u> (thousand)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
1991	317	486	7,788	7,669	5,485	11,338
1992	205	261	4,507	7,430	4,208	7,447
1993	156	245	7,481	8,213	4,989	7,940
1994	48	125	4,582	7,227	4,083	6,397
1995	22	101	4,710	6,158	3,534	6,591
1996	212	193	5,094	5,150	2,674	6,147
1997	242	238	5,528	7,585	3,504	8,259
1998	106	202	3,796	7,098	3,341	7,361
1999	78	122	5,950	7,342	3,385	7,332
2000	92	164	7,407	6,451	2,971	7,940

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1991-2000

Year	Temperate Basses			Toadfishes		
	<u>Pounds</u> <u>harvested</u> (thousand)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)	<u>Pounds</u> <u>harvested</u> (thousand)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)
1991	4,541	2,494	5,396	7	134	2,867
1992	4,683	1,977	5,538	19	152	1,631
1993	6,783	2,895	7,321	17	39	2,638
1994	7,888	2,827	10,490	28	61	1,720
1995	13,439	2,382	12,303	1	30	1,618
1996	14,538	3,560	14,882	1	14	1,048
1997	17,677	4,314	20,155	(1)	33	1,120
1998	14,080	3,323	18,577	2	10	998
1999	14,835	2,564	15,526	(1)	9	911
2000	18,245	3,694	20,588	(1)	3	1,432

Year	Triggerfishes/Filefishes			Tunas And Mackerels		
	<u>Pounds</u> <u>harvested</u> (thousand)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)	<u>Pounds</u> <u>harvested</u> (thousand)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)
1991	2,428	1,000	427	33,098	10,783	2,949
1992	1,654	796	307	24,513	7,067	3,027
1993	1,547	767	232	31,258	8,603	5,487
1994	1,414	740	179	36,281	12,039	5,507
1995	1,207	671	192	37,424	9,257	5,811
1996	848	468	268	34,412	9,164	6,477
1997	1,086	511	232	41,142	11,500	6,619
1998	775	390	233	30,347	7,207	4,114
1999	757	390	196	33,926	8,331	3,916
2000	550	258	194	40,094	9,859	5,343

Year	Wrasses			California Scorpionfish		
	<u>Pounds</u> <u>harvested</u> (thousand)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)	<u>Pounds</u> <u>harvested</u> (thousand)	<u>Number</u> <u>Harvested</u> (thousands)	<u>Number</u> <u>Released</u> (thousands)
1991	8,696	3,518	4,611	-	-	-
1992	8,238	3,088	3,313	-	-	-
1993	6,536	2,879	3,532	166	148	72
1994	4,148	1,761	2,484	258	242	126
1995	5,129	2,058	3,287	224	212	139
1996	3,547	1,292	1,740	339	342	234
1997	2,596	929	1,820	206	243	132
1998	1,756	572	2,053	185	160	66
1999	2,957	951	3,101	297	280	105
2000	3,582	1,027	2,373	199	173	232

See footnotes at end of table.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1991-2000

Year	Croakers			Greenlings		
	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)
1993	583	1,217	1,145	1,814	497	174
1994	446	739	521	1,016	294	109
1995	695	1,132	673	962	252	144
1996	919	1,544	864	1,369	408	285
1997	556	774	712	1,061	299	244
1998	425	610	355	1,407	270	299
1999	689	533	469	1,516	269	248
2000	822	579	659	1,075	261	542

Year	Pacific Barracuda			Rockfishes		
	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)
1993	1,687	428	822	6,087	4,901	1,447
1994	2,015	526	1,239	4,810	3,797	698
1995	2,490	563	816	4,188	2,918	666
1996	1,011	234	350	4,811	3,740	808
1997	1,699	374	475	3,796	2,986	679
1998	2,057	450	752	5,592	4,134	735
1999	1,988	423	475	6,196	4,943	478
2000	1,523	357	526	5,502	4,014	590

Year	Sea Chubs			Silversides		
	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)
1993	87	129	59	439	1,078	152
1994	106	107	42	138	323	96
1995	224	217	31	317	801	171
1996	78	72	18	296	658	120
1997	66	58	12	169	492	242
1998	87	108	46	152	395	158
1999	92	82	13	109	316	96
2000	116	109	71	117	298	46

Year	Smelts			Surfperches		
	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)	<u>Pounds harvested</u> (thousand)	<u>Number Harvested</u> (thousands)	<u>Number Released</u> (thousands)
1993	159	1,628	31	756	1,364	608
1994	90	1,208	(1)	442	819	365
1995	122	1,416	(1)	710	1,181	648
1996	474	4,351	4	950	1,464	686
1997	120	1,617	9	640	1,179	755
1998	357	4,825	9	1,006	1,435	488
1999	28	1,221	7	415	701	356
2000	128	1,777	3	320	766	430

(1) Number or pounds less than 1,000 or less than 1 metric ton.

NOTE: The MRFSS was not conducted on the Pacific Coast from 1990 to 1992.

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL FINFISH HARVEST (A+B1) AND RELEASED (B2), BY STATE, 1999 and 2000

State	1999		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>Harvested</u> (thousands)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
Maine	802	944	917
New Hampshire	833	606	526
Massachusetts	7,626	3,731	7,218
Rhode Island	3,817	2,191	2,675
Connecticut	2,575	1,366	3,191
New York	9,733	4,028	9,541
New Jersey	14,181	5,627	22,082
Delaware	2,021	1,486	3,592
Maryland	5,396	4,100	13,079
Virginia	11,507	9,518	12,851
North Carolina	18,034	6,392	10,256
South Carolina	2,628	2,190	2,722
Georgia	1,772	1,792	485
Florida	60,483	59,837	75,436
Alabama	6,568	3,678	4,631
Mississippi	3,027	3,090	1,656
Louisiana	20,977	12,444	14,477
Washington	3,088	2,480	1,776
Oregon	2,927	1,154	265
California	20,682	9,002	5,768
Grand Total	198,677	135,656	193,144

State	2000		
	<u>Pounds</u>	<u>Number</u>	<u>Number</u>
	<u>Harvested</u> (thousands)	<u>Harvested</u> (thousands)	<u>Released</u> (thousands)
Maine	1,494	1,581	1,455
New Hampshire	1,041	882	912
Massachusetts	14,949	5,634	11,746
Rhode Island	6,546	2,886	3,525
Connecticut	2,878	5,410	4,156
New York	16,329	19,552	13,259
New Jersey	23,892	11,139	24,673
Delaware	3,332	1,689	4,045
Maryland	8,589	7,632	21,380
Virginia	12,734	8,734	17,025
North Carolina	21,505	8,455	13,722
South Carolina	2,712	1,852	3,547
Georgia	2,114	1,852	3,120
Florida	64,207	69,508	80,691
Alabama	5,895	3,290	4,181
Mississippi	2,744	2,534	2,376
Louisiana	31,197	17,074	22,142
Washington	4,558	2,979	2,344
Oregon	5,290	1,699	500
California	22,217	10,158	10,080
Grand Total	254,223	184,540	244,879

U.S. Marine Recreational Fisheries

U.S. RECREATIONAL NUMBERS OF ANGLERS AND TRIPS BY STATES, 1999 AND 2000

1999				
State	Out-of-State Anglers	In-State Anglers		Number of Angler Trips
		From Coastal Counties	From Non-Coastal Counties	
	----- Numbers in thousands -----			
Maine	95	112	10	629
New Hampshire	60	55	8	285
Massachusetts	174	240	57	2,983
Rhode Island	214	108	-	1,262
Connecticut	55	243	-	1,319
New York	28	337	11	2,903
New Jersey	303	493	30	4,825
Delaware	168	69	-	800
Maryland	349	383	41	2,883
Virginia	187	309	66	2,694
North Carolina	805	324	164	4,555
South Carolina	221	132	61	1,213
Georgia	20	59	32	473
Florida	2,282	2,154	-	19,491
Alabama	143	131	92	1,170
Mississippi	75	76	26	806
Louisiana	91	409	33	2,621
Washington	31	329	23	1,256
Oregon	55	184	14	554
California	158	956	53	4,150
Grand Total		7,103	721	56,872

2000				
State	Out-of-State Anglers	In-State Anglers		Number of Angler Trips
		From Coastal Counties	From Non-Coastal Counties	
	----- Numbers in thousands -----			
Maine	143	132	19	851
New Hampshire	82	74	10	356
Massachusetts	256	474	87	4,450
Rhode Island	172	104	-	1,280
Connecticut	50	211	-	1,434
New York	19	448	11	4,444
New Jersey	417	528	16	6,277
Delaware	190	78	-	1,038
Maryland	465	446	50	3,722
Virginia	254	376	65	3,286
North Carolina	1,204	392	216	6,091
South Carolina	236	182	66	1,277
Georgia	43	86	82	764
Florida	2,854	2,970	-	25,789
Alabama	122	142	82	1,097
Mississippi	43	155	25	1,061
Louisiana	102	533	64	3,654
Washington	47	418	32	1,627
Oregon	80	263	22	901
California	220	1,422	63	5,949
Grand Total		9,434	910	75,348

NOTE: All counties in RI, CT, DE, and FL are considered coastal.

NOTE: Out-of-state angler estimates are not additive across states.

WORLD AQUACULTURE AND COMMERCIAL CATCHES, 1990-99

Year	World aquaculture			World commercial catch			Grand Total
	Inland	Marine	Total	Inland	Marine	Total	
	----- Metric tons -----			----- Metric tons -----			
	Live weight			Live weight			
1990	8,078,609	4,995,719	13,074,328	6,451,259	79,101,299	85,552,558	98,626,886
1991	8,368,459	5,371,579	13,740,038	6,212,660	78,332,030	84,544,690	98,284,728
1992	9,303,412	6,123,867	15,427,279	6,149,462	79,268,731	85,418,193	100,845,472
1993	10,501,604	7,333,308	17,834,912	6,533,030	80,055,436	86,588,466	104,423,378
1994	12,076,448	8,687,421	20,763,869	6,719,851	84,866,032	91,585,883	112,349,752
1995	14,043,180	10,449,864	24,493,044	7,264,708	84,606,586	91,871,294	116,364,338
1996	15,891,101	10,856,257	26,747,358	7,397,876	86,133,131	93,531,007	120,278,365
1997	17,485,633	11,242,532	28,728,165	7,505,685	86,260,651	93,766,336	122,494,501
1998	18,658,642	12,134,859	30,793,501	7,948,993	78,984,128	86,933,121	117,726,622
1999	20,022,908	13,287,441	33,310,349	8,260,155	84,606,398	92,866,553	126,176,902

Note:--Data for marine mammals and aquatic plants are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO).

WORLD AQUACULTURE AND COMMERCIAL CATCHES OF FISH, CRUSTACEANS, AND MOLLUSKS, 1998-99

Species group	1998			1999		
	Aquaculture	Catch	Total	Aquaculture	Catch	Total
	----- Metric tons -----			----- Metric tons -----		
	Live-weight			Live-weight		
Herrings, sardines, anchovies	-	16,713,557	16,713,557	-	22,715,856	22,715,856
Carp, barbel, cyprinids	14,060,568	590,924	14,651,492	14,901,545	764,963	15,666,508
Cods, hakes, haddock	148	10,315,000	10,315,148	149	9,405,265	9,405,414
Jacks, mullets, sauries	201,542	8,486,225	8,687,767	208,929	7,715,792	7,924,721
Redfish, basses, congers	201,926	7,017,982	7,219,908	232,037	6,832,401	7,064,438
Tunas, bonitos, billfishes	5,140	5,783,867	5,789,007	6,365	5,975,643	5,982,008
Mackerel, snoeks, cutlassfishes	-	5,045,631	5,045,631	-	5,114,146	5,114,146
Salmons, trouts, smelts	1,290,118	887,235	2,177,353	1,391,615	911,630	2,303,245
Tilapia	960,370	601,075	1,561,445	1,099,268	636,164	1,735,432
Flatfish	33,445	930,513	963,958	33,050	957,691	990,741
Shads	-	791,021	791,021	-	842,392	842,392
Sharks, rays, chimaeras	-	806,066	806,066	-	822,189	822,189
River eels	226,124	12,287	238,411	227,704	11,728	239,432
Sturgeons, paddlefish	2,034	3,777	5,811	2,706	2,950	5,656
Other fishes	3,068,623	15,306,125	18,374,748	3,358,417	15,922,004	19,280,421
Shrimp	1,074,878	2,740,140	3,815,018	1,130,737	2,890,784	4,021,521
Crabs	79,621	1,215,470	1,295,091	103,650	1,190,814	1,294,464
Lobsters	40	296,024	296,064	58	312,914	312,972
Krill	-	81,216	81,216	-	103,318	103,318
Other crustaceans	298,741	2,044,692	2,343,433	349,497	1,788,432	2,137,929
Oysters	3,539,385	160,303	3,699,688	3,711,606	157,538	3,869,144
Clams, cockles, arkshells	2,262,637	826,861	3,089,498	2,744,846	812,501	3,557,347
Squids, cuttlefishes, octopus	33	2,633,270	2,633,303	33	3,373,463	3,373,496
Mussels	1,377,631	250,134	1,627,765	1,451,032	237,823	1,688,855
Scallops	874,630	522,360	1,396,990	951,866	567,507	1,519,373
Abalones, winkles, conchs	3,149	95,945	99,094	2,694	105,047	107,741
Other mollusks	1,123,189	2,152,395	3,275,584	1,270,001	2,093,873	3,363,874
Sea urchins, other echinoderms	30	107,188	107,218	-	118,750	118,750
Miscellaneous	109,499	515,838	625,337	132,544	482,975	615,519
Total	30,793,501	86,933,121	117,726,622	33,310,349	92,866,553	126,176,902

Note:--Data for 1998 are revised. Data for marine mammals and aquatic plants are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO).

WORLD AQUACULTURE AND COMMERCIAL CATCHES BY COUNTRY OF FISH, CRUSTACEANS, AND MOLLUSKS, 1998-99

Country	1998			1999		
	Aquaculture	Catch	Total	Aquaculture	Catch	Total
	-----Metric tons----- Live-weight			-----Metric tons----- Live-weight		
China	20,795,367	17,229,927	38,025,294	22,789,887	17,240,032	40,029,919
Peru	7,732	4,338,437	4,346,169	8,275	8,429,290	8,437,565
Japan	766,812	5,263,384	6,030,196	759,262	5,176,460	5,935,722
India	2,029,831	3,214,765	5,244,596	2,035,488	3,316,815	5,352,303
Chile	293,044	3,265,383	3,558,427	274,216	5,050,528	5,324,744
United States	445,123	4,708,980	5,154,103	478,679	4,749,645	5,228,324
Indonesia	629,797	3,964,897	4,594,694	647,640	4,149,420	4,797,060
Russian Federation	63,195	4,454,759	4,517,954	68,615	4,141,157	4,209,772
Thailand	607,673	2,900,320	3,507,993	602,807	3,004,900	3,607,707
Norway	408,862	2,850,565	3,259,427	466,035	2,620,073	3,086,108
South Korea	327,462	2,026,934	2,354,396	303,106	2,119,668	2,422,774
Philippines	312,077	1,833,458	2,145,535	328,375	1,870,450	2,198,825
Viet Nam	521,870	1,130,660	1,652,530	594,910	1,200,000	1,794,910
Iceland	3,868	1,681,951	1,685,819	3,897	1,736,267	1,740,164
Bangladesh	514,842	839,141	1,353,983	620,114	924,056	1,544,170
Spain	313,518	1,215,645	1,529,163	317,796	1,167,242	1,485,038
Denmark	42,368	1,557,335	1,599,703	42,653	1,405,011	1,447,664
Malaysia	133,635	1,153,719	1,287,354	155,127	1,251,768	1,406,895
Taiwan	240,435	1,091,768	1,332,203	247,732	1,099,715	1,347,447
Mexico	40,989	1,174,742	1,215,731	48,414	1,202,178	1,250,592
All others	2,295,001	21,036,351	23,331,352	2,517,321	21,011,878	23,529,199
Total	30,793,501	86,933,121	117,726,622	33,310,349	92,866,553	126,176,902

Note:--For the United States the weight of clams, oyster, scallop, and other mollusk includes the shell weight. This weight is not included in U.S. landings shown elsewhere. Data for marine mammals and aquatic plants are excluded.
Source:--Food and Agriculture Organization of the United Nations (FAO).

WORLD AQUACULTURE AND COMMERCIAL CATCHES BY AREA OF FISH, CRUSTACEANS, AND MOLLUSKS, 1998-99

Country	1998			1999		
	Aquaculture	Catch	Total	Aquaculture	Catch	Total
	-----Metric tons----- Live-weight			-----Metric tons----- Live-weight		
Marine Areas						
Atlantic Ocean:						
Northeast	1,236,198	10,950,950	12,187,148	1,330,071	10,489,900	11,819,971
Northwest	69,668	1,965,310	2,034,978	89,557	2,031,043	2,120,600
Eastern central	-	3,786,983	3,786,983	5	3,590,989	3,590,994
Western central	70,043	1,776,660	1,846,703	74,798	1,777,837	1,852,635
Southeast	3,276	1,246,364	1,249,640	2,892	1,250,377	1,253,269
Southwest	15,349	2,326,510	2,341,859	25,424	2,497,129	2,522,553
Mediterranean and Black Sea	327,241	1,406,361	1,733,602	354,731	1,536,148	1,890,879
Indian Ocean:						
Eastern	371,976	4,409,780	4,781,756	391,553	4,553,818	4,945,371
Western	46,403	3,726,554	3,772,957	69,104	3,894,642	3,963,746
Pacific Ocean:						
Northeast	82,296	2,792,459	2,874,755	94,012	2,590,369	2,684,381
Northwest	8,752,368	24,782,356	33,534,724	9,715,417	24,121,117	33,836,534
Eastern central	52,761	1,393,066	1,445,827	49,639	1,443,728	1,493,367
Western central	560,267	9,444,827	10,005,094	584,317	9,754,321	10,338,638
Southeast	440,975	8,028,269	8,469,244	400,091	14,171,040	14,571,131
Southwest	106,038	852,712	958,750	105,830	780,390	886,220
Antarctic	-	94,967	94,967	-	123,550	123,550
Inland Areas						
Africa	163,809	1,985,909	2,149,718	251,021	1,987,411	2,238,432
Asia	17,513,305	4,985,121	22,498,426	18,716,969	5,266,415	23,983,384
Europe	433,631	434,994	868,625	455,151	470,567	925,718
North America	402,211	197,669	599,880	440,518	187,854	628,372
South America	142,180	323,441	465,621	156,169	324,559	480,728
Oceania	3,506	21,859	25,365	3,080	23,349	26,429
Total	30,793,501	86,933,121	117,726,622	33,310,349	92,866,553	126,176,902

Note:--Data for marine mammals and aquatic plants are excluded.
Source:--Food and Agriculture Organization of the United Nations (FAO).

WORLD IMPORTS AND EXPORTS OF SEVEN FISHERY COMMODITY GROUPS, BY LEADING COUNTRIES, 1995-99

Country	1995	1996	1997	1998	1999
----- Thousand U.S. dollars -----					
IMPORTS:					
Japan	17,853,481	17,023,945	15,539,507	12,826,543	14,748,712
United States	7,141,428	7,080,411	8,138,840	8,578,766	9,407,307
Spain	3,105,684	3,134,893	3,069,601	3,545,751	3,286,831
France	3,221,298	3,194,133	3,062,051	3,505,333	3,280,940
Italy	2,281,316	2,590,985	2,571,868	2,808,587	2,728,568
Germany	2,478,817	2,542,957	2,362,914	2,623,741	2,288,523
United Kingdom	1,910,091	2,065,025	2,141,619	2,384,028	2,276,998
Denmark	1,573,732	1,618,669	1,521,181	1,704,234	1,771,500
Hong Kong	1,831,511	1,928,143	2,096,894	1,611,747	1,593,661
Canada	1,034,070	1,158,864	1,129,210	1,194,583	1,338,973
Other Countries	13,687,212	14,920,464	15,027,372	14,301,148	14,802,483
Total	56,118,640	57,258,489	56,661,057	55,084,461	57,524,496
EXPORTS:					
Thailand	4,449,457	4,117,865	4,329,541	4,031,279	4,109,860
Norway	3,122,662	3,415,696	3,399,229	3,661,174	3,764,790
China	2,835,021	2,856,986	2,937,281	2,656,117	2,959,530
United States	3,383,589	3,147,858	2,850,311	2,400,338	2,945,014
Denmark	2,459,629	2,698,976	2,648,911	2,897,707	2,884,334
Canada	2,314,413	2,291,261	2,270,725	2,265,236	2,617,759
Taiwan	1,809,166	1,762,132	1,779,800	1,579,836	1,763,572
Netherlands	1,447,239	1,470,046	1,425,544	1,364,809	1,744,665
Chile	1,704,260	1,697,211	1,781,805	1,596,800	1,696,819
Spain	1,190,676	1,447,170	1,471,306	1,529,315	1,604,237
Other Countries	27,002,622	27,892,294	28,525,781	27,205,430	26,787,310
Total	51,718,734	52,797,495	53,420,234	51,188,041	52,877,890

Note:-- Data for 1995-1998 are revised. Data on imports and exports cover the international trade of 176 countries or areas. The total value of exports is consistently less than the value of imports, probably because charges for insurance, freight, and similar expenses were included in the import value, but not in the export value. The seven fishery commodity groups covered by this table are: 1. Fish, fresh, chilled or frozen; 2. Fish, dried, salted, or smoked; 3. Crustaceans and mollusks, fresh, dried, salted, etc.; 4. Fish products and preparations, whether or not in airtight containers; 5. Crustacean and mollusk products preparations, whether or not in airtight containers; 6. Oils and fats, crude or refined, of aquatic animal origin; and 7. Meals, solubles, and similar animal foodstuffs of aquatic animal origin.
Source:—Food and Agriculture Organization of the United Nations (FAO).

DISPOSITION OF WORLD AQUACULTURE AND COMMERCIAL CATCHES, 1995-99

Item	1995	1996	1997	1998	1999
----- Percent of Total -----					
Marketed fresh	29.9	31.3	34.2	35.5	35.3
Frozen	23.0	22.7	22.4	23.2	21.6
Canned	11.3	10.8	10.9	11.3	10.8
Cured	10.1	10.0	9.2	9.9	9.3
Reduced to meal and oil (1)	24.0	23.4	21.5	18.3	21.0
Miscellaneous purposes	1.7	1.8	1.8	1.8	2.0
Total	100.0	100.0	100.0	100.0	100.0

Note:-- Data for 1995-1998 are revised. Data for marine mammals and aquatic plants are excluded.
(1) Only whole fish destined for the manufacture of oils and meals are included. Raw material for reduction derived from fish primarily destined for marketing fresh, frozen, canned, cured, and miscellaneous purposes is excluded; such waste quantities are included under the other disposition channels.
Source:—Food and Agriculture Organization of the United Nations (FAO).

Processed Fishery Products

FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 2000 the U.S. production of raw (uncooked) fish fillets and steaks, including blocks, was 369.3 million pounds--7.0 million pounds less than the 362.3 million pounds in 1999. These fillets and steaks were valued at \$829.5 million. Alaska pollock fillets and blocks led all species with 160.1 million pounds--43 percent of the total. Production of groundfish fillets and steaks was 233.2 million pounds.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 227.2 million pounds valued at \$283.4 million compared with the 1999 production of 268.3 million pounds valued at \$332.5 million.

The total production of fish sticks amounted to 40.5 million pounds valued at \$43.1 million. The total production of fish portions amounted to 186.7 million pounds valued at \$240.3 million.

BREADED SHRIMP. The production of breaded shrimp in 2000 was 121.5 million pounds valued at \$375.9 million, compared with the 1999 production of 119.1 million pounds valued at \$351.9 million.

FROZEN FISHERY TRADE. In 2000, stocks of frozen fishery products in cold storage were at a low of 342.7 million pounds on June 30 and a high of 416.0 million pounds on October 31. Cold storage holdings of shrimp products were at a high of 53.8 million pounds on January 31 and a low of 35.6 million pounds on June 30. Holdings of saltwater fillets and steaks reached a high of 119.5 million pounds on April 30 and were at a low of 80.0 million pounds on January 31. Holdings of blocks and slabs were at a high of 43.7 million pounds on January 31 and a low of 21.7 million pounds on November 30. Surimi reached a high of 20.4 million pounds on November 30 and was at a low of 11.6 million pounds on February 29. Analog Products reached a high of 6.3 million pounds on November 30 and a low of 4.4 million pounds on March 31.

CANNED PRODUCTS

CANNED FISHERY PRODUCTS. The pack of canned fishery products in the 50 states, American Samoa, and Puerto Rico was 1.7 billion pounds valued at \$1.6 billion--a decrease of 152.7 million pounds and \$238.9 million compared with the 1999 pack. The 2000 pack included 1.0 billion pounds valued at \$1.3 billion for human consump-

tion and 738.8 million pounds valued at \$292.0 million for bait and animal food.

CANNED SALMON. The 2000 U.S. pack of salmon was 171.1 million pounds valued at \$287.9 million, compared with 234.2 million pounds valued at \$393.1 million packed in 1999.

CANNED SARDINES. The pack of Maine sardines (small herring) can not be shown due to the confidential nature of the data.

CANNED TUNA. The U.S. pack of tuna was 671.3 million pounds valued at \$855.4 million--a decrease of 22.5 million pounds in quantity and \$90.3 million in value compared with the 1999 pack. The pack of albacore tuna was 192.7 million pounds comprising 29 percent of the pack in 2000. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 478.7 million pounds.

CANNED CLAMS. The 2000 U.S. pack of clams (whole, minced, chowder, juice, and specialties) was 124.8 million pounds valued at \$117.3 million. The pack of whole and minced clams was 42.7 million pounds and accounted for 34 percent of the total clam pack. Clam chowder and clam juice was 73.2 million pounds and made up the majority of the pack.

OTHER CANNED ITEMS. The pack of pet food was 738.8 million pounds valued at \$292.0 million--a decrease of 57.9 million pounds compared with the 1999 pack.

INDUSTRIAL FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS. The value of the domestic production of industrial fishery products was \$218.1 million--a decrease of \$50.1 million compared with the 1999 value of \$268.2 million.

FISH MEAL. The domestic production of fish and shellfish meal was 638.2 million pounds valued at \$114.9 million--a decrease of 48.0 million pounds and \$32.1 million compared with 1999. Fish meal production was 627.2 million pounds valued at \$114.2 million--a decrease of 44.6 million pounds and \$31.9 million from the 1999 production. Shellfish meal production was 11.1 million pounds--a decrease of 3.4 million pounds from the 1999.

FISH OILS. The domestic production of fish oils was 192.3 million pounds valued at \$20.9 million--a decrease

Processed Fishery Products

of 93.8 million pounds and \$21.0 million in value compared with 1999 production.

OTHER INDUSTRIAL PRODUCTS. Oyster shell products, together with agar-agar, animal feeds, crab and clam shells processed for food serving, fish pellets, Irish moss

extracts, kelp products, dry and liquid fertilizers, pearl essence, and mussel shell buttons were valued at \$82.3 million, compared with \$79.3 million in 1999--an increase of \$3.0 million.

VALUE OF PROCESSED FISHERY PRODUCTS, 1999 AND 2000
(Processed from domestic catch and imported products)

Item	1999 (1)		2000	
	<u>Thousand dollars</u>	<u>Percent of total</u>	<u>Thousand dollars</u>	<u>Percent of total</u>
Edible:				
Fresh and frozen	5,051,343	69	5,275,955	73
Canned	1,521,880	21	1,330,520	18
Cured	151,802	2	121,008	2
Total edible	6,725,025	92	6,727,483	93
Industrial:				
Bait and animal food (canned)	339,548	5	291,992	4
Meal and oil	188,854	3	135,815	2
Other	79,325	1	82,273	1
Total industrial	607,727	8	510,080	7
Grand total	7,332,752	100	7,237,563	100

(1) Revised. May not add due to rounding. Value is based on selling price at the plant.

U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1991-2000

Year	Fish sticks			Fish portions			Breaded shrimp		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
1991	63,286	28,706	77,877	204,697	92,850	313,400	116,335	52,769	335,880
1992	58,295	26,442	56,020	194,307	88,137	296,214	122,266	55,459	350,497
1993	67,959	30,826	67,975	206,165	93,516	313,195	111,489	50,571	316,722
1994	58,789	26,667	51,429	196,289	89,036	268,353	113,461	51,466	304,931
1995	74,066	33,596	73,478	251,217	113,951	356,518	100,522	45,596	299,355
1996	65,244	29,594	55,802	213,962	97,053	306,501	108,486	49,209	341,770
1997	69,167	31,374	64,298	195,554	88,703	285,348	117,471	53,284	334,939
1998	68,778	31,197	63,473	184,681	83,771	211,356	109,481	49,660	333,257
1999	65,019	29,492	63,396	203,279	92,207	269,125	119,149	54,046	351,891
2000	40,472	18,358	43,092	186,691	84,682	240,316	121,541	55,131	375,929

Processed Fishery Products

PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 1999 AND 2000

Species	1999 (1)			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Fillets:						
Amberjack	157	71	673	180	82	769
Anglerfish	2,620	1,188	8,651	2,712	1,230	7,701
Bluefish	136	62	354	112	51	236
Cod	61,321	27,815	108,496	55,512	25,180	164,936
Cusk	115	52	383	82	37	293
Dolphin	3,088	1,401	14,166	3,391	1,538	14,703
Drum	58	26	219	7	3	29
Flounders	22,939	10,405	66,746	27,082	12,284	72,311
Groupers	1,767	802	11,670	1,907	865	13,292
Haddock	4,818	2,185	20,455	4,683	2,124	20,752
Hake	4,877	2,212	6,192	8,400	3,810	6,354
Halibut	3,928	1,782	21,220	3,061	1,388	16,078
Lingcod	307	139	905	188	85	540
Marlins	611	277	1,876	632	287	1,769
Ocean perch:						
Atlantic	738	335	2,445	503	228	1,503
Pacific	1,456	660	3,088	2,181	989	4,963
Pollock:						
Atlantic	1,644	746	3,725	1,703	772	3,655
Alaska	143,796	65,225	168,476	160,122	72,631	178,594
Rockfishes	10,809	4,903	23,096	10,845	4,919	25,109
Sablefish	22	10	92	188	85	806
Salmon	27,709	12,569	77,479	23,399	10,614	66,688
Sea bass	567	257	4,111	395	179	2,705
Sea trout	215	98	872	157	71	681
Shark	1,024	464	2,355	770	349	1,925
Snapper	1,510	685	9,632	1,688	766	11,600
Swordfish	8,892	4,033	43,269	5,251	2,382	29,284
Tilapia	629	285	1,791	673	305	1,837
Tuna	11,632	5,276	73,888	8,536	3,872	54,741
Wahoo	263	119	1,327	248	112	1,328
Whitefish	919	417	2,371	804	365	2,142
Wolfish	82	37	202	48	22	125
Unclassified	18,390	8,342	58,441	12,037	5,460	41,319
Total	337,039	152,880	738,666	337,497	153,088	748,768
Steaks:						
Halibut	6,724	3,050	27,155	8,045	3,649	34,333
Salmon	1,244	564	3,112	1,973	895	6,826
Swordfish	3,092	1,403	13,633	2,735	1,241	11,301
Tuna	4,368	1,981	14,457	4,039	1,832	12,457
Unclassified	9,836	4,462	9,752	15,022	6,814	15,849
Total	25,264	11,460	68,109	31,814	14,431	80,766
Grand total	362,303	164,340	806,775	369,311	167,518	829,534

(1) Revised.

Note:--Some fillet products were further processed into frozen blocks.

Processed Fishery Products

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1999 AND 2000

Species	Pounds per case	1999 (1)			2000		
		Standard cases	Thousand pounds	Thousand dollars	Standard cases	Thousand pounds	Thousand dollars
For human consumption:							
Fish:							
Herring	23.4	158,846	3,717	6,709	(5)	(5)	(5)
Salmon:							
Chinook	44.25	2,644	117	290	2,689	119	146
Chum	44.25	171,322	7,581	6,079	192,814	8,532	6,406
Pink	44.25	3,904,068	172,755	195,269	2,352,972	104,119	111,517
Coho	44.25	42,305	1,872	3,834	75,684	3,349	5,624
Sockeye	44.25	1,171,299	51,830	187,600	1,243,073	55,006	164,171
Total salmon		5,291,638	234,155	393,072	3,867,232	171,125	287,864
Specialties	48	13,188	633	6,526	15,958	766	6,204
Sardines, Maine	23.4	513,547	12,017	20,107	(5)	(5)	(5)
Tuna: (2)							
Albacore:							
Solid	18	10,061,333	181,104	349,891	8,887,444	159,974	334,473
Chunk	18	1,784,389	32,119	61,731	1,815,667	32,682	58,408
Total albacore		11,845,722	213,223	411,622	10,703,111	192,656	392,881
Lightmeat:							
Solid	18	624,389	11,239	16,536	424,667	7,644	10,590
Chunk	18	26,075,222	469,354	517,623	26,168,333	471,030	451,964
Total lightmeat		26,699,611	480,593	534,159	26,593,000	478,674	462,554
Total tuna		38,545,333	693,816	945,781	37,296,111	671,330	855,435
Specialties	48	563	27	173	625	30	251
Other	48	322,833	15,496	18,269	623,458	29,926	44,331
Total fish	--	44,845,948	959,861	1,390,637	41,803,384	873,177	1,194,085
Shellfish:							
Clam and clam products: (3)							
Whole and minced	15	2,826,933	42,404	64,182	2,846,800	42,702	69,827
Chowder and juice	30	2,447,600	73,428	39,512	2,439,500	73,185	40,314
Specialties	48	158,875	7,626	6,360	186,438	8,949	7,114
Total clams	--	5,433,408	123,458	110,054	5,472,738	124,836	117,255
Crabs, natural	20	1,385	27	264	1,436	28	490
Lobster meat and specialties	48	9,729	467	525	9,542	458	536
Oyster, specialties	48	1,042	50	110	7,667	368	526
Shrimp, natural (4)	6.75	289,630	1,955	9,639	282,963	1,910	11,430
Other	48	302,313	14,511	10,651	99,979	4,799	6,198
Total shellfish	--	6,037,506	140,468	131,243	5,874,324	132,399	136,435
Total for human consumption	--	50,883,454	1,100,329	1,521,880	47,677,708	1,005,576	1,330,520
For bait and animal food	48	16,599,354	796,769	339,548	15,392,104	738,821	291,992
Grand total	--	67,482,808	1,897,098	1,861,428	63,069,812	1,744,397	1,622,512

(1) Revised.

(2) Flakes included with chunk.

(3) "Cut out" or "drained" weight of can contents are given for whole or minced clams, and net contents for other clam products.

(4) Drained weight.

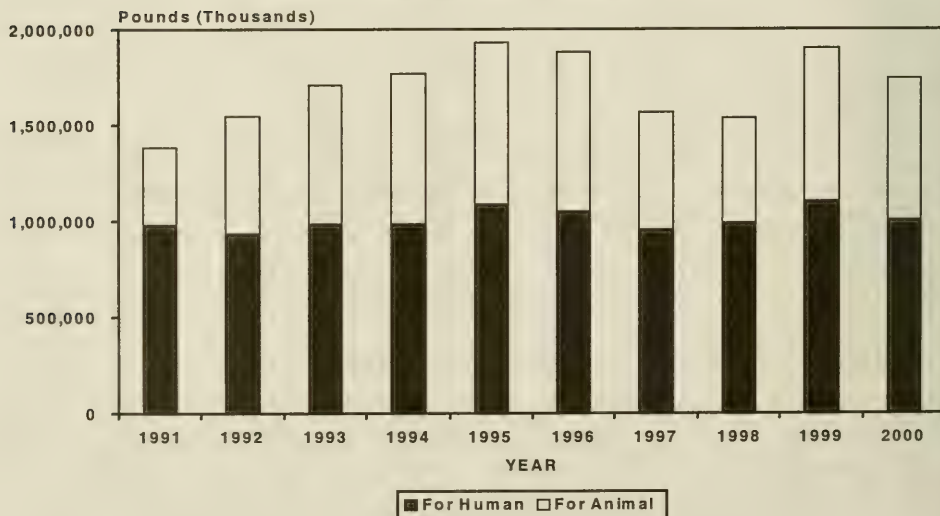
(5) Confidential included with 'Other.'

Processed Fishery Products

PRODUCTION OF CANNED FISHERY PRODUCTS, 1991-2000

Year	For human consumption			For animal food and bait			Total		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
1991	981,275	445,103	1,439,362	404,440	183,453	204,917	1,385,715	628,556	1,644,279
1992	936,117	424,620	1,330,173	607,678	275,641	247,261	1,543,795	700,261	1,577,434
1993	983,225	445,988	1,375,377	725,822	329,231	312,597	1,709,047	775,219	1,687,974
1994	985,675	447,099	1,470,234	782,272	354,836	325,264	1,767,947	801,935	1,795,498
1995	1,084,866	492,092	1,544,208	842,351	382,088	342,842	1,927,217	874,180	1,887,050
1996	1,052,909	477,596	1,428,937	824,094	373,807	370,945	1,877,003	851,403	1,799,882
1997	952,755	432,167	1,361,437	612,320	277,747	231,756	1,565,075	709,913	1,593,193
1998	988,693	448,468	1,425,564	544,328	246,906	349,765	1,533,021	695,374	1,775,329
1999	1,100,329	499,106	1,521,880	796,769	361,412	339,548	1,897,098	860,518	1,861,428
2000	1,005,576	456,126	1,330,520	738,821	335,127	291,992	1,744,397	791,253	1,622,512

Production of Canned Fishery Products, 1990-99



Processed Fishery Products

PRODUCTION OF MEAL AND OIL, 1999 AND 2000

Product	1999			2000		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
Dried scrap and meal:						
Fish	671,794	304,724	146,140	627,176	284,485	114,247
Shellfish	14,456	6,557	830	11,064	5,019	654
Total, scrap and meal	686,250	311,281	146,970	638,240	289,504	114,901
Body oil, total	286,182	129,811	41,884	192,348	87,248	20,914

Note:--To convert pounds of oil to gallons divide by 7.75.

The above data includes products in American Samoa and Puerto Rico.

PRODUCTION OF INDUSTRIAL PRODUCTS, 1991-2000

Year	Scrap and meal		Marine animal oil		Meal and oil	Other industrial products	Grand total
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	----- Thousand dollars -----		
1991	612,716	277,926	267,345	121,267	170,495	37,707	208,202
1992	644,512	292,349	184,725	83,791	157,693	45,310	203,003
1993	750,744	340,535	293,452	133,109	182,170	43,689	225,859
1994	807,833	366,431	291,882	132,397	186,222	61,992	248,214
1995	667,240	302,658	241,941	109,744	172,279	74,264	246,543
1996	643,124	291,719	248,399	112,673	187,968	85,583	273,551
1997	724,668	328,707	283,379	128,540	229,222	118,128	347,350
1998	613,434	278,252	222,697	101,015	172,574	60,800	233,374
1999	686,250	311,281	286,182	129,811	188,854	79,325	268,179
2000	638,240	289,504	192,348	87,248	135,815	82,273	218,088

Note:--Does not include the value of imported items that may be further processed.

U.S. Cold Storage Holdings

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 2000

Species	January	February	March	April	May	June
Fish	----- Thousand pounds -----					
Saltwater:						
Blocks and slabs:						
Cod	4,073	3,340	3,242	2,679	2,959	2,637
Flounder and sole	863	456	440	318	223	188
Haddock	355	675	145	85	148	216
Ocean perch	293	211	257	289	377	232
Pollock:						
Alaska (walleye)	12,237	11,479	11,738	9,923	7,894	5,703
Atlantic or other	14,266	12,979	9,285	7,308	6,608	6,167
Whiting:						
Silver (Atlantic) hake	453	398	375	81	188	212
Pacific hake	69	34	17	280	0	43
Minced	8,499	6,541	7,279	6,788	8,611	8,112
Unclassified (1)	2,630	2,302	1,632	2,231	2,017	5,437
Total, blocks and slabs	43,739	38,414	34,409	29,981	29,027	28,948
Fillets and steaks:						
Cod	20,626	27,711	34,518	40,493	40,628	37,173
Flounder and sole	4,728	4,221	3,890	3,533	5,517	5,477
Haddock	1,982	1,791	1,659	721	2,367	2,160
Halibut	2,058	2,010	1,859	2,728	1,748	2,092
Ocean perch	2,290	1,859	1,573	1,547	1,460	1,217
Pollock:						
Alaska (walleye)	19,664	22,822	32,744	46,241	40,646	34,306
Atlantic or other	2,972	2,797	2,471	1,969	1,870	2,186
Rockfish	331	258	288	116	205	155
Salmon	3,796	3,192	2,948	3,027	2,911	2,860
Whiting:						
Silver (Atlantic) hake	3,999	4,031	3,721	2,883	5,122	2,033
Pacific hake	5,763	5,234	4,872	4,611	875	995
Unclassified	11,765	11,030	9,444	11,611	11,256	7,806
Total, fillets and steaks	79,973	86,956	99,988	119,482	114,606	98,459
Round, dressed, etc.:						
Halibut (exc. California)	5,177	4,003	3,259	2,849	3,969	4,941
Sablefish	98	352	87	106	644	747
Salmon:						
Chinook or king	738	456	384	265	444	563
Silver or coho	2,479	1,968	1,506	1,339	948	765
Chum or fall	19,329	14,913	10,062	6,305	3,899	5,718
Pink	5,754	4,031	3,439	2,212	1,641	636
Sockeye	2,498	1,811	1,356	1,006	796	759
Unclassified	2,263	1,774	1,909	1,578	1,448	1,416
Total, salmon	33,061	24,952	18,657	12,705	9,176	9,856
Whiting:						
Silver (Atlantic) hake	304	163	136	241	739	420
Pacific hake	591	114	151	49	334	151
Unclassified (exc. bait)	25,708	28,455	29,430	25,354	22,071	23,865
Total, round, dressed, etc.	64,939	58,040	51,719	41,303	36,934	39,980

See footnotes at end of table.

(Continued)

U.S. Cold Storage Holdings

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 2000 - Continued						
Species	July	August	September	October	November	December
Fish	----- Thousand pounds -----					
Saltwater:						
Blocks and slabs:						
Cod	2,146	1,993	1,820	1,935	1,749	1,871
Flounder and sole	301	245	276	254	178	338
Haddock	190	151	290	286	312	407
Ocean perch	178	138	238	197	204	310
Pollock:						
Alaska (walleye)	4,644	6,571	7,438	9,363	6,877	8,138
Atlantic or other	4,771	3,833	4,915	5,471	2,489	8,978
Whiting:						
Silver (Atlantic) hake	221	314	335	569	614	546
Pacific hake	30	28	0	0	0	0
Minced	8,164	7,264	6,459	6,585	7,778	8,244
Unclassified (1)	2,505	2,064	1,718	1,645	1,538	1,591
Total, blocks and slabs	23,149	22,601	23,489	26,306	21,739	30,422
Fillets and steaks:						
Cod	35,669	32,063	30,036	28,975	28,158	26,463
Flounder and sole	4,253	4,709	6,631	5,125	5,169	5,153
Haddock	2,408	2,246	2,107	2,032	1,967	2,306
Halibut	2,095	2,349	2,410	2,486	2,641	2,447
Ocean perch	1,096	1,099	1,035	973	968	1,162
Pollock:						
Alaska (walleye)	32,204	33,385	32,738	36,888	30,255	25,903
Atlantic or other	1,905	2,138	1,997	2,094	2,371	2,573
Rockfish	147	867	767	750	654	651
Salmon	3,906	4,663	5,403	5,668	4,830	5,161
Whiting:						
Silver (Atlantic) hake	1,337	1,304	2,118	2,108	4,354	4,258
Pacific hake	145	182	58	61	58	74
Unclassified	10,871	8,405	9,974	8,934	10,119	11,031
Total, fillets and steaks	96,037	93,410	95,275	96,092	91,542	87,179
Round, dressed, etc.:						
Halibut (exc. California)	5,920	7,974	9,806	10,377	10,608	8,568
Sablefish	677	986	1,547	874	664	569
Salmon:						
Chinook or king	1,609	1,874	2,212	2,295	1,763	1,430
Silver or coho	1,762	4,526	8,474	8,811	8,318	7,733
Chum or fall	27,800	42,135	41,172	35,299	29,932	24,707
Pink	496	2,154	3,912	3,352	2,362	2,191
Sockeye	3,029	4,685	4,589	3,720	2,387	1,892
Unclassified	2,942	4,485	5,127	5,035	4,405	3,688
Total, salmon	37,638	59,859	65,485	58,513	49,165	41,642
Whiting:						
Silver (Atlantic) hake	495	367	339	416	252	141
Pacific hake	46	5	0	0	69	28
Unclassified (exc. bait)	22,497	25,339	24,895	29,850	20,922	24,911
Total, round, dressed, etc.	67,274	94,531	102,072	100,031	81,680	75,860

See footnotes at end of table.

(Continued)

U.S. Cold Storage Holdings

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 2000 - Continued

Species	January	February	March	April	May	June
Fish	----- Thousand pounds -----					
Fish sticks and portions (2):	24,497	22,655	17,772	19,069	26,667	23,800
Analog products	4,915	5,035	4,411	5,018	5,893	5,264
Surimi: Pollock	10,130	8,886	15,858	15,888	13,846	12,165
Other	2,535	2,740	3,131	2,462	3,941	5,363
Total, saltwater	230,727	222,727	227,289	233,203	230,913	213,979
Freshwater						
Fillets and steaks:	239	186	177	211	172	93
Catfish	13,366	13,099	12,371	11,704	11,413	11,357
Rainbow trout	649	685	696	749	729	712
Unclassified (exc. bait)	215	221	188	481	521	343
Total, freshwater	14,470	14,192	13,432	13,146	12,835	12,505
Bait & animal food	8,063	9,374	15,884	18,151	18,636	18,904
Shellfish						
Clams and clam meats	2,989	3,038	2,500	1,972	4,457	2,910
Crabs:						
Dungeness	2,840	3,286	3,038	2,258	1,113	1,110
King:						
Meat	301	282	313	121	214	255
Sections	8,580	9,220	7,487	6,386	5,458	5,973
Snow:						
Meat	1,134	1,316	1,207	911	702	880
Sections	14,759	14,649	13,061	15,764	18,267	16,368
Unclassified	2,251	2,162	1,921	1,314	1,515	3,360
Total, crab	29,865	30,915	27,028	26,754	27,269	27,947
Lobsters:						
Spiny (tails)	631	619	628	527	346	357
Unclassified (whole & meat)	6,911	5,967	4,916	4,480	3,668	3,826
Oyster meats	224	316	462	432	659	719
Scallop meats	5,190	5,235	5,013	5,361	8,589	4,771
Shrimp:						
Raw, headless	9,327	8,659	7,727	6,311	5,939	5,807
Breaded	4,767	4,821	4,055	4,086	3,977	4,152
Peeled	25,108	21,836	17,570	14,234	13,935	14,411
Unclassified	14,570	17,262	16,621	13,332	13,082	11,210
Total, shrimp	53,772	52,578	45,974	37,963	36,933	35,581
Squid	24,084	15,096	15,226	13,495	10,903	8,759
Unclassified shellfish	11,323	10,721	9,268	9,714	11,568	12,011
Total, shellfish	134,989	124,487	111,015	100,699	104,392	96,880
Total, fish and shellfish	388,248	370,781	367,620	365,199	366,776	342,269
Cured fish (all categories)	848	733	1,877	1,282	1,028	462
Grand total	389,096	371,514	369,498	366,480	367,804	342,731

See footnotes at end of table.

(Continued)

U.S. Cold Storage Holdings

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 2000 - Continued

Species	July	August	September	October	November	December
Fish	Thousand pounds					
Fish sticks and portions (2):	22,803	22,315	31,390	30,446	33,380	33,992
Analog products	5,269	4,709	4,624	4,902	6,302	5,012
Surimi: Pollock	13,701	13,874	16,071	17,343	16,638	13,914
Other	3,902	3,580	3,190	2,965	3,720	5,485
Total, saltwater	232,136	255,020	276,112	278,085	255,001	251,863
Freshwater:						
Fillet and steaks	133	224	169	227	220	230
Catfish	10,057	10,645	11,927	12,906	14,327	14,041
Rainbow trout	617	750	617	619	551	675
Unclassified (exc. bait)	274	239	387	368	297	316
Total, freshwater	11,082	11,858	13,100	14,120	15,394	15,262
Bait & animal food	18,808	17,518	15,322	13,188	11,788	11,053
Shellfish						
Clams and clam meats	2,720	2,867	2,110	2,581	2,442	1,783
Crabs:						
Dungeness	1,319	1,314	1,159	1,197	1,146	761
King:						
Meat	256	153	112	149	99	98
Sections	5,808	5,606	4,762	5,290	6,291	6,877
Snow:						
Meat	1,118	1,156	791	4,093	952	995
Sections	16,080	15,801	15,752	11,867	13,597	13,545
Unclassified	4,402	5,590	5,550	5,662	3,808	4,528
Total, crab	28,983	29,620	28,125	28,258	25,893	26,805
Lobsters:						
Spiny (tails)	357	1,361	277	441	1,880	2,046
Unclassified (whole & meat)	3,587	4,579	5,138	5,638	4,708	5,297
Oyster meats	618	458	356	342	173	147
Scallop meats	5,106	1,757	5,026	5,161	5,734	6,238
Shrimp:						
Raw, headless	5,727	6,142	7,133	8,609	5,807	5,548
Breaded	3,825	3,859	3,906	3,635	3,626	3,716
Peeled	18,851	20,146	20,847	21,980	20,277	19,893
Unclassified	10,425	12,367	11,362	15,322	13,730	13,867
Total, shrimp	38,828	42,514	43,248	49,546	43,440	43,024
Squid	6,557	2,486	4,588	5,175	7,770	13,445
Unclassified shellfish	11,236	13,574	10,449	11,451	11,736	12,729
Total, shellfish	97,992	99,215	99,318	108,593	103,775	111,514
Total, fish and shellfish	360,018	383,610	403,852	413,986	385,958	389,691
Cured fish (all categories)	1,092	943	2,135	2,050	1,650	1,370
Grand total	361,110	384,554	405,987	416,036	387,608	391,061

(1) Unclassified may also include blocks and slabs made from species listed separately.

(2) Fish sticks and portions include all species that are either cooked or uncooked.

NOTE:—Data includes imported fishery products. Data for these tables were collected from public and private warehouses where fishery products are normally stored for 30 days or more. Totals may not agree with annual report due to rounding.

IMPORTS

U.S. imports of edible fishery products in 2000 were valued at a record \$10.1 billion, \$1.0 billion more than in 1999. The quantity of edible imports was 4.0 billion pounds, 90.3 million pounds more than the quantity imported in 1999.

Edible imports consisted of 3.3 billion pounds of fresh and frozen products valued at \$9.1 billion, 556.3 million pounds of canned products valued at \$670.1 million, 68.9 million pounds of cured products valued at \$144.8 million, 5.7 million pounds of caviar and roe products valued at \$45.8 million, and 36.9 million pounds of other products valued at \$73.6 million.

The quantity of shrimp imported in 2000 was 760.8 million pounds, 29.5 million pounds more than the quantity imported in 1999. Valued at \$3.8 billion, shrimp imports accounted for 37 percent of the value of total edible imports. Imports of fresh and frozen tuna were 445.2 million pounds, 45.8 million pounds less than the 591.0 million pounds imported in 1999. Imports of canned tuna were 313.0 million pounds, 21.6 million pounds less than in 1999. Imports of fresh and frozen fillets and steaks amounted to 734.7 million pounds, an increase of 80.4 million pounds from 1999. Regular and minced block imports were 203.9 million pounds, a decrease of 10.4 million pounds from 1999.

Imports of nonedible fishery products were valued at \$8.9 billion -- an increase of \$933.7 million compared

with 1999. The total value of edible and nonedible products was \$19.0 billion in 2000, \$2.0 billion more than in 1999 when \$17.0 billion of fishery products were imported.

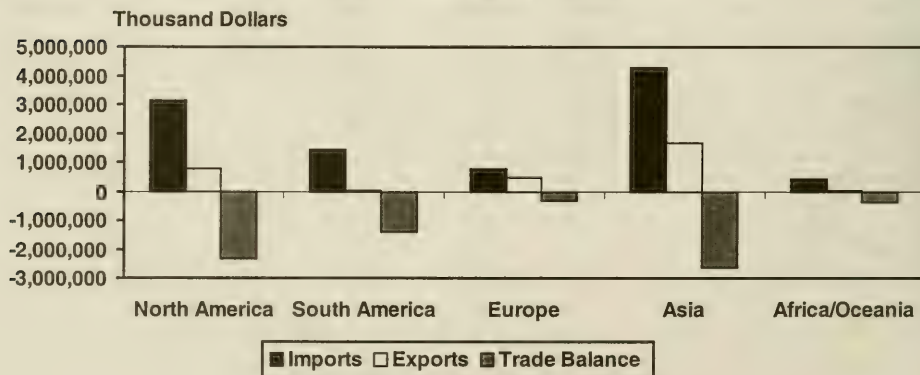
EXPORTS

U.S. exports of edible fishery products were 2.2 billion pounds valued at \$3.0 billion, an increase of 211.4 million pounds and \$116.3 million when compared with 1999. Fresh and frozen items were 1.8 billion pounds valued at \$2.2 billion, an increase of 196.3 million pounds, and \$75.2 million compared with 1999. In terms of individual items, fresh and frozen exports consisted principally of 219.6 million pounds of salmon valued at \$353.6 million, 330.8 million pounds of surimi valued at \$285.3 million and 64.0 million pounds of lobsters valued at \$291.2 million.

Canned items were 160.0 million pounds valued at \$218.9 million. Salmon was the major canned item exported, with 81.0 million pounds valued at \$146.0 million. Cured items were 13.9 million pounds valued at \$19.7 million. Caviar and roe exports were 95.1 million pounds valued at \$433.8 million.

Exports of nonedible products were valued at \$7.9 billion compared with \$7.2 billion in 1999. Exports of fish meal amounted to 209.2 million pounds valued at \$75.3 million. The total value of edible and nonedible exports was \$10.9 billion—an increase of \$892.1 million compared with 1999.

U.S. Trade in Edible Fishery Products, 2000



FISHERY PRODUCTS IMPORTS, BY PRINCIPAL ITEMS, 1999 AND 2000

Item	1999			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Edible fishery products:						
Fresh and frozen:						
Whole or eviscerated:						
Freshwater	95,728	43,422	85,870	100,863	45,751	94,292
Flatfish	45,300	20,548	95,331	35,298	16,011	87,624
Groundfish	62,776	28,475	62,231	57,218	25,954	55,830
Salmon	155,762	70,653	344,991	151,339	68,647	333,059
Tuna (1)	491,004	222,718	549,524	445,212	201,947	520,143
Other	256,146	116,187	352,473	272,941	123,805	387,576
Fillets and steaks:						
Freshwater	54,246	24,606	127,329	64,767	29,378	157,741
Flatfish	47,159	21,391	93,747	58,880	26,708	124,064
Groundfish	224,944	102,034	456,662	224,955	102,039	420,673
Other	327,952	148,758	760,499	386,109	175,138	951,094
Blocks and slabs	214,351	97,229	250,285	203,903	92,490	208,700
Surimi	21,574	9,786	16,383	1,733	786	1,660
Shrimp	728,336	330,371	3,130,821	757,099	343,418	3,748,667
Crabmeat	17,555	7,963	80,357	21,270	9,648	114,604
Lobster:						
American	52,525	23,825	333,743	64,211	29,126	417,542
Spiny	28,541	12,946	294,755	30,406	13,792	354,253
Scallops (meats)	44,079	19,994	192,647	53,649	24,335	212,424
Other fish and shellfish	359,511	163,073	815,241	380,518	172,602	929,833
Total, fresh and frozen	3,227,488	1,463,979	8,042,889	3,310,372	1,501,575	9,119,779
Canned:						
Anchovy	7,260	3,293	20,244	7,870	3,570	19,966
Herring	7,355	3,336	8,322	11,654	5,286	14,054
Mackerel	25,166	11,415	12,659	26,733	12,126	13,664
Salmon	2,229	1,011	6,287	5,161	2,341	11,480
Sardines	48,722	22,100	57,880	62,236	28,230	70,941
Tuna	334,537	151,745	335,830	312,967	141,961	258,531
Clams	11,942	5,417	10,627	12,773	5,794	12,921
Crabmeat	27,707	12,568	124,291	31,246	14,173	154,062
Lobsters	29	13	295	46	21	634
Oysters	12,928	5,864	26,818	13,591	6,165	26,389
Shrimp	2,945	1,336	7,626	3,655	1,658	8,661
Balls, cakes, and puddings	14,189	6,436	21,026	15,679	7,112	22,044
Other fish and shellfish	51,447	23,336	49,683	52,679	23,895	56,721
Total, canned	546,454	247,870	681,588	556,291	252,332	670,068
Cured:						
Dried	18,164	8,239	56,843	17,454	7,917	53,046
Pickled or salted	38,292	17,369	58,698	41,969	19,037	60,118
Smoked or kippered	9,985	4,529	29,675	9,471	4,296	31,677
Total, cured	66,440	30,137	145,216	68,894	31,250	144,841
Caviar and roe	5,474	2,483	44,221	5,739	2,603	45,803
Prepared meals	5,121	2,323	15,213	5,523	2,505	16,410
Other fish and shellfish	36,914	16,744	84,759	31,420	14,252	57,187
Total edible fishery products	3,887,891	1,763,536	9,013,886	3,978,238	1,804,517	10,054,088
Nonedible fishery products:						
Meal and scrap	73,069	33,144	16,634	79,013	35,840	18,122
Fish oils	25,677	11,647	15,174	27,220	12,347	19,093
Other	-	-	7,993,888	-	-	8,922,176
Total nonedible fishery products	-	-	8,025,696	-	-	8,959,391
Grand total	-	-	17,039,582	-	-	19,013,479

(1) Includes loins and discs.

Note:--Data include imports into the United States and Puerto Rico and landings of tuna by foreign vessels at American Samoa. Statistics on imports are the weight of individual products as exported, i.e., fillets, steaks, headed, etc. Imports and Exports of Fishery Products, Annual Summary, 2000, Current Fishery Statistics No. 2000-2 provides additional information.

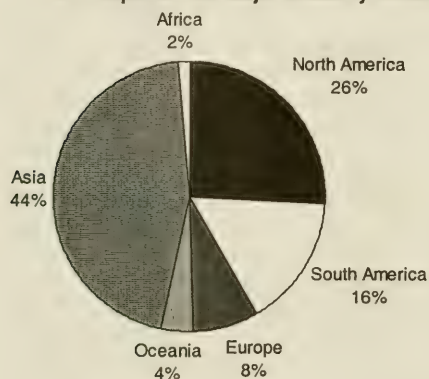
Source:—U.S. Department of Commerce, Bureau of the Census.

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1991-2000

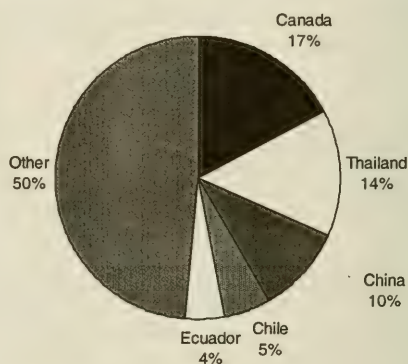
Year	Edible		Nonedible	Total	
	Thousand pounds	Metric tons	-----Thousand dollars-----		
1991	3,014,819	1,367,513	5,671,887	3,763,173	9,435,060
1992	2,893,954	1,312,689	5,705,876	4,165,386	9,871,262
1993	2,917,160	1,323,215	5,848,738	4,773,649	10,622,387
1994	3,034,841	1,376,595	6,645,132	5,341,740	11,986,872
1995	3,066,458	1,390,936	6,791,690	5,659,933	12,451,623
1996	3,169,787	1,437,806	6,729,614	6,330,741	13,060,355
1997	3,338,849	1,514,492	7,754,243	6,774,083	14,528,326
1998	3,647,021	1,654,278	8,173,185	7,459,487	15,632,672
1999	3,887,891	1,763,536	9,013,886	8,025,696	17,039,582
2000	3,978,238	1,804,517	10,054,088	8,959,391	19,013,479

Source:—U.S. Department of Commerce, Bureau of the Census.

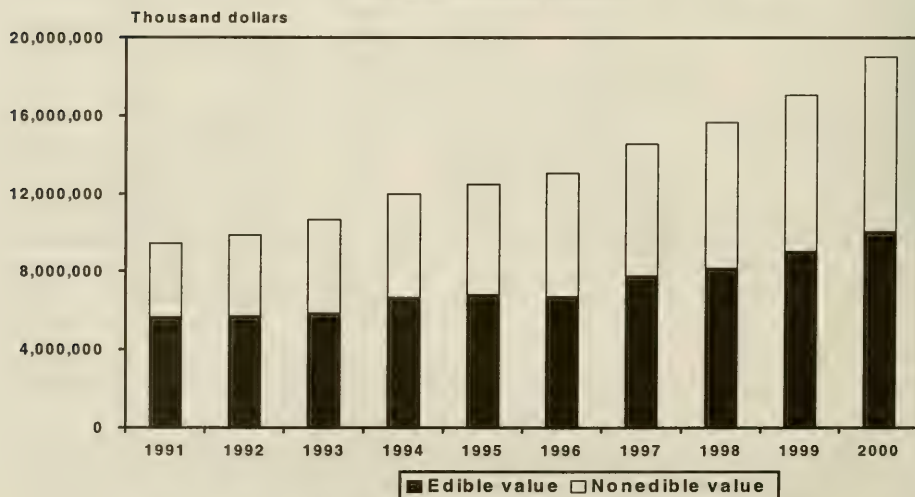
U.S. Imports from Major Areas by Volume



U.S. Imports from Major Exporters by Volume



U.S. Fishery Product Imports



EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 2000

Continent and Country	Edible		Nonedible		Total
	Thousand pounds	Metric tons	-----Thousand dollars-----		
North America:					
Canada	685,767	311,062	1,915,141	942,232	2,857,373
Mexico	138,993	63,047	532,454	244,304	776,758
Dominican Republic	683	310	845	146,800	147,645
Honduras	28,514	12,934	131,466	38	131,504
Nicaragua	19,491	8,841	107,081	15	107,096
Other	155,358	70,470	433,348	66,500	499,848
Total	1,028,807	466,664	3,120,335	1,399,889	4,520,224
South America:					
Chile	216,743	98,314	499,205	15,610	514,815
Ecuador	171,159	77,637	369,290	9,285	378,575
Venezuela	43,371	19,673	178,665	4,073	182,738
Brazil	39,826	18,065	137,135	32,283	169,418
Argentina	65,688	29,796	94,443	17,904	112,347
Other	90,380	40,996	174,478	113,191	287,669
Total	627,167	284,481	1,453,216	192,346	1,645,562
Europe:					
European Union:					
Italy	1,455	660	3,697	1,558,012	1,561,709
France	3,377	1,532	8,597	702,750	711,347
Germany	2,780	1,261	4,661	320,832	325,493
United Kingdom	22,300	10,115	47,172	261,835	309,007
Spain	13,669	6,200	25,459	87,184	112,643
Other	22,463	10,189	50,127	173,971	224,098
Total	66,043	29,957	139,713	3,104,584	3,244,297
Other:					
Russian Federation	99,117	44,959	256,037	5,390	261,427
Turkey	1,065	483	2,275	224,713	226,988
Iceland	72,108	32,708	189,395	7,291	196,686
Norway	58,455	26,515	145,949	28,817	174,766
Switzerland	22	10	80	149,824	149,904
Other	18,355	8,326	49,589	56,915	106,504
Total	249,122	113,001	643,325	472,950	1,116,275
Asia:					
Thailand	569,457	258,304	1,815,728	625,122	2,440,850
China	397,000	180,078	585,357	500,675	1,086,032
India	99,366	45,072	283,628	642,873	926,501
Hong Kong	5,205	2,361	8,263	683,087	691,350
Japan	45,937	20,837	152,586	382,426	535,012
Other	677,445	307,287	1,445,198	769,429	2,214,627
Total	1,794,410	813,939	4,290,760	3,603,612	7,894,372
Oceania:					
Australia	10,840	4,917	88,227	68,923	157,150
New Zealand	72,348	32,817	138,064	14,709	152,773
French Polynesia	1,237	561	2,525	36,677	39,202
Fiji	18,148	8,232	23,490	2,292	25,782
Papua New Guinea	17,948	8,141	12,304	22	12,326
Other	31,519	14,297	20,917	2,827	23,744
Total	152,040	68,965	285,527	125,550	410,977
Africa:					
South Africa	20,203	9,164	47,817	37,263	85,080
Morocco	13,067	5,927	23,338	4,441	27,779
Namibia	8,250	3,742	18,722	40	18,762
Mauritius	10,653	4,832	14,575	1,438	16,013
Zimbabwe	-	-	-	7,800	7,800
Other	8,477	3,845	16,760	9,578	26,338
Total	60,649	27,510	121,212	60,560	181,772
Grand total	3,978,238	1,804,517	10,054,088	8,959,391	19,013,479

Source:—U.S. Department of Commerce, Bureau of the Census.

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY SPECIES AND TYPE, 1999 AND 2000

Species and type	1999			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Regular blocks and slabs:						
Cod	26,696	12,109	49,413	27,738	12,582	49,558
Flatfish	5,646	2,561	9,195	6,437	2,920	11,731
Haddock	5,302	2,405	12,008	5,635	2,556	12,669
Ocean perch	353	160	625	487	221	826
Pollock	126,299	57,289	128,768	115,356	52,325	90,609
Whiting	13,441	6,097	12,058	12,101	5,489	9,967
Other	8,915	4,044	11,209	11,482	5,208	14,457
Total	186,652	84,665	223,276	179,236	81,301	189,817
Minced blocks and slabs	27,699	12,564	27,009	24,667	11,189	18,883
Grand total	214,351	97,229	250,285	203,903	92,490	208,700

Source:--U.S. Department of Commerce, Bureau of the Census.

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY COUNTRY OF ORIGIN, 1999 AND 2000

Country	1999			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
China	93,283	42,313	76,431	94,979	43,082	77,633
Russian Federation	59,934	27,186	84,661	45,818	20,783	44,625
Canada	14,385	6,525	18,497	14,912	6,764	16,692
Denmark	5,212	2,364	11,208	5,452	2,473	11,187
Iceland	7,745	3,513	13,171	5,957	2,702	9,216
Argentina	8,602	3,902	8,246	7,441	3,375	8,536
Norway	3,155	1,431	6,124	3,452	1,566	6,906
Chile	2,694	1,222	2,396	4,638	2,104	4,548
St. Pierre & Miquelon	1,627	738	3,058	2,414	1,095	4,474
Other	17,714	8,035	26,493	18,841	8,546	24,883
Total	214,351	97,229	250,285	203,903	92,490	208,700

Source:--U.S. Department of Commerce, Bureau of the Census.

GROUNDFISH FILLET AND STEAK IMPORTS, BY SPECIES, 1999 AND 2000 (1)

Species	1999			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Cod	98,184	44,536	270,606	93,433	42,381	251,350
Haddock (2)	108,718	49,314	152,747	113,513	51,489	137,979
Ocean perch	18,042	8,184	33,309	18,009	8,169	31,344
Total	224,944	102,034	456,662	224,955	102,039	420,673

(1) Does not include data on fish blocks and slabs.

(2) Includes some quantities of cusk, hake, and pollock fillets.

Source:--U.S. Department of Commerce, Bureau of the Census.

CANNED TUNA NOT IN OIL, QUOTA AND IMPORTS, 1991-2000

Year	Quota (1)		Over quota (2)		Total	
	Thousand pounds	Metric tons	Thousand pounds	Metric tons	Thousand pounds	Metric tons
1991	75,093	34,062	237,237	107,610	312,330	141,672
1992	73,724	33,441	259,739	117,817	333,463	151,258
1993	72,681	32,968	144,287	65,448	216,968	98,416
1994	73,294	33,246	168,224	76,306	241,518	109,552
1995	73,367	33,279	126,176	57,233	199,543	90,512
1996	80,027	36,300	117,205	53,164	197,232	89,464
1997	78,620	35,662	139,714	63,374	218,335	99,036
1998	67,317	30,535	176,648	80,127	243,965	110,662
1999	72,086	32,698	249,016	112,953	321,102	145,651
2000	62,403	28,306	243,741	110,560	306,144	138,866

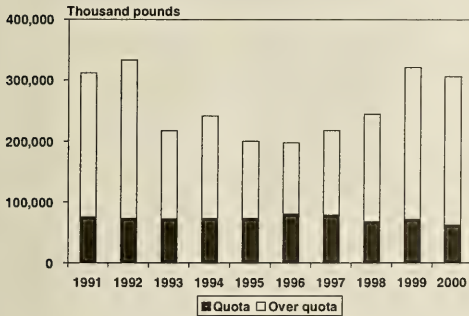
(1) Imports have been subject to tariff quotas since April 14, 1956, and are based on 20 percent of the previous year's domestic pack, excluding the pack in American Samoa. Dutiable in 1956 to 1967 at 12.5 percent ad valorem; 1968, 11 percent; 1969, 10 percent; 1970, 8.5 percent; 1971, 7 percent; and 1972 to 2000, 6 percent.

(2) Dutiable in 1972 to 2000, 12.5 percent.

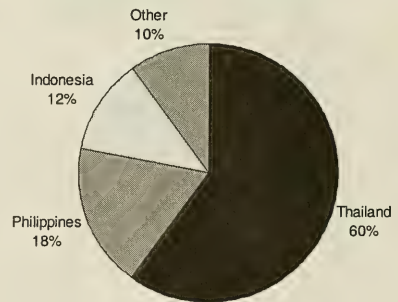
Note:—Data in this table will not agree with tuna import data released by the U.S. Department of Commerce, Bureau of the Census. Any tuna entered for consumption or withdrawn from a warehouse for consumption during the calendar year, except for receipts for possessions of the U.S., is subject to this quota.

Source:—U.S. Department of the Treasury, U.S. Customs Service.

Canned Tuna Quota and Imports



Imports of Canned Tuna by Major Exporter, 2000



CANNED TUNA, BY COUNTRY OF ORIGIN, 1999 AND 2000

Country	1999			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Thailand	190,334	86,335	201,956	176,211	79,929	155,435
Philippines	85,080	38,592	69,476	77,719	35,253	46,530
Indonesia	38,437	17,435	40,341	29,524	13,392	30,383
Papua New Guinea	7,522	3,412	6,358	16,852	7,644	10,504
Ecuador	4,153	1,884	7,326	5,245	2,379	6,267
Malaysia	2,950	1,338	4,477	3,953	1,793	5,783
Mexico	3,320	1,506	2,465	948	430	807
South Korea	459	208	703	818	371	736
Spain	243	110	546	284	129	643
Other	2,039	925	2,182	1,413	641	1,443
Total	334,537	151,745	335,830	312,967	141,961	258,531

Source:—U.S. Department of Commerce, Bureau of the Census.

SHRIMP IMPORTS, BY COUNTRY OF ORIGIN, 1999 AND 2000

Country	1999			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
North America:						
Mexico	77,262	35,046	386,104	64,097	29,074	403,014
Honduras	16,318	7,402	67,261	17,372	7,880	84,179
Panama	17,101	7,757	68,929	12,899	5,851	64,648
Canada	14,469	6,563	44,101	19,513	8,851	57,511
Nicaragua	9,550	4,332	37,184	10,642	4,827	44,137
Belize	4,941	2,241	22,804	4,934	2,238	22,111
Guatemala	4,004	1,816	16,052	3,607	1,636	15,776
El Salvador	6,014	2,728	24,984	3,056	1,386	14,758
Costa Rico	2,615	1,186	15,179	2,407	1,092	14,176
Greenland	553	251	1,368	95	43	448
Other	18	8	127	106	48	579
Total	152,845	69,330	684,093	138,727	62,926	721,337
South America:						
Ecuador	111,140	50,413	402,932	42,101	19,097	190,393
Venezuela	26,585	12,059	93,566	32,815	14,885	141,495
Brazil	4,215	1,912	14,889	12,998	5,896	53,131
Guyana	12,568	5,701	28,102	19,032	8,633	40,371
Colombia	6,027	2,734	27,268	6,166	2,797	32,815
Suriname	2,892	1,312	5,538	5,873	2,664	13,171
Peru	4,722	2,142	17,888	1,074	487	4,145
Chile	994	451	3,817	970	440	3,355
Argentina	101	46	636	157	71	878
Uruguay	-	-	-	150	68	777
Total	169,247	76,770	594,637	121,337	55,038	480,531
Europe:						
European Union:						
United Kingdom	134	61	423	291	132	1,380
France	-	-	-	42	19	163
Denmark	79	36	191	75	34	151
Netherlands	2	1	9	20	9	126
Spain	4	2	29	20	9	78
Other	183	20	66	366	25	173
Total	265	120	718	503	228	2,071
Other:						
Norway	139	63	455	298	135	729
Estonia	44	20	146	73	33	284
Faroe Islands	-	-	-	46	21	150
Iceland	161	73	395	15	7	67
Other	11	5	86	-	-	-
Total	355	161	1,082	432	196	1,230
Asia:						
Thailand	252,433	114,503	1,196,972	278,767	126,448	1,498,353
India	48,109	21,822	160,758	62,556	28,375	239,582
Viet Nam	17,815	8,081	109,065	34,652	15,718	235,557
Indonesia	35,335	16,028	167,327	36,942	16,757	190,727
Bangladesh	19,290	8,750	112,228	22,535	10,222	145,307
China	19,502	8,846	49,272	40,130	18,203	136,451
Burma	736	334	3,654	6,058	2,748	26,905
Philippines	3,613	1,639	17,335	4,127	1,872	22,891
Sri Lanka	1,828	829	8,983	2,729	1,238	15,069
Malaysia	1,823	827	6,691	2,401	1,089	12,665
Other	7,844	3,558	24,639	8,245	3,740	25,404
Total	408,329	185,217	1,856,924	499,143	226,410	2,548,911
Oceania	152	69	706	300	136	1,804
Africa	88	40	287	313	142	1,444
Grand total	731,281	331,707	3,138,447	760,755	345,076	3,757,328

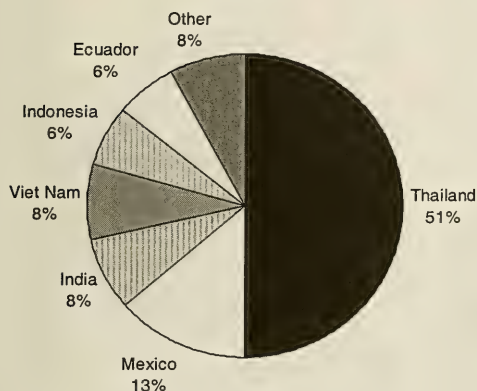
Note:—Statistics on imports are the weights of the individual products as received, i.e., raw headless, peeled, etc.

SHRIMP IMPORTS, BY TYPE OF PRODUCT, 1999 AND 2000

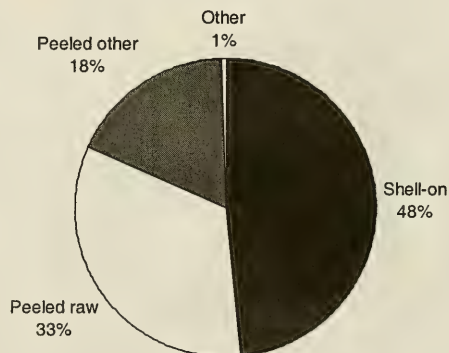
Type of product	1999			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Shell-on (heads off)	344,901	156,446	1,554,481	338,737	153,650	1,814,996
Peeled:						
Canned	2,945	1,336	7,626	3,655	1,658	8,661
Not breaded:						
Raw	275,538	124,983	1,073,958	285,762	129,621	1,254,505
Other	105,609	47,904	495,089	128,369	58,228	663,457
Breaded	2,288	1,038	7,293	4,231	1,919	15,709
Total	731,281	331,707	3,138,447	760,755	345,076	3,757,328

Source:—U.S. Department of Commerce, Bureau of the Census.

Shrimp Imports by Major Exporter, 2000



Shrimp Imports by Type, 2000



FISH MEAL AND SCRAP IMPORTS, BY COUNTRY OF ORIGIN, 1999 AND 2000

Country	1999			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Iceland	24,722	11,214	6,527	31,431	14,257	6,688
Canada	15,657	7,102	4,026	13,986	6,344	4,169
Peru	24,619	11,167	3,613	14,813	6,719	2,854
Mexico	2,504	1,136	679	3,964	1,798	840
Chile	886	402	179	4,202	1,906	827
Japan	2,326	1,055	667	3,512	1,593	778
Denmark	1,387	629	362	2,582	1,171	710
China	187	85	219	1,638	743	637
Ecuador	284	129	54	2,449	1,111	329
Other	496	225	308	437	198	290
Total	73,069	33,144	16,634	79,013	35,840	18,122

Source:—U.S. Department of Commerce, Bureau of the Census.

FISHERY PRODUCTS EXPORTS, BY PRINCIPAL ITEMS, 1999 AND 2000 (1)

Item	1999			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Edible fishery products:						
Fresh and frozen:						
Whole or eviscerated:						
Freshwater	3,393	1,539	4,348	7,344	3,331	7,115
Flatfish	120,343	54,587	121,212	146,136	66,287	126,041
Groundfish	124,842	56,628	122,914	182,142	82,619	171,289
Herring	47,752	21,660	32,573	37,648	17,077	24,142
Sablefish	29,495	13,379	61,419	37,619	17,064	86,545
Salmon	210,542	95,501	371,478	219,616	99,617	353,595
Tuna	22,017	9,987	27,531	17,154	7,781	26,417
Other	344,590	156,305	219,222	316,100	143,382	207,728
Fillets, and steaks:						
Freshwater	545	247	1,132	613	278	609
Groundfish	37,474	16,998	45,614	52,549	23,836	50,188
Other	45,538	20,656	76,975	35,703	16,195	68,619
Blocks and slabs	59,705	27,082	63,236	59,359	26,925	53,996
Surimi	273,913	124,246	299,300	330,783	150,042	285,297
Fish sticks	22,414	10,167	27,285	31,338	14,215	36,539
Clams	1,911	867	2,655	1,111	504	2,032
Crabs	56,784	25,757	143,908	36,391	16,507	121,995
Crabmeat	3,840	1,742	7,817	3,309	1,501	7,913
Lobsters	57,264	25,975	262,721	63,986	29,024	291,243
Scallops (meats)	6,982	3,167	25,231	9,114	4,134	36,895
Sea urchins	4,398	1,995	11,539	4,941	2,241	11,178
Shrimp	32,864	14,907	122,760	35,869	16,270	139,147
Squid	114,368	51,877	61,066	192,212	87,187	81,196
Other fish and shellfish	31,387	12,698	63,131	31,559	10,984	60,519
Total, fresh and frozen	1,648,968	747,967	2,175,067	1,845,252	837,001	2,250,238
Canned:						
Salmon	113,726	51,586	197,680	81,006	36,744	145,991
Sardines	3,803	1,725	3,172	9,323	4,229	6,263
Tuna	7,945	3,604	12,084	4,253	1,929	6,484
Abalone	220	100	2,963	88	40	1,023
Crabmeat	1,329	603	3,279	2,593	1,176	5,698
Shrimp	2,355	1,068	9,025	2,549	1,156	14,410
Squid	4,270	1,937	2,397	17,756	8,054	7,303
Other fish and shellfish	33,755	15,311	25,529	42,423	19,243	31,689
Total, canned	167,404	75,934	256,129	159,990	72,571	218,861
Cured:						
Dried	2,055	932	4,347	2,458	1,115	6,966
Pickled or salted	23,845	10,816	20,627	11,072	5,022	10,878
Smoked or kippered	675	306	2,303	414	188	1,882
Total, cured	26,574	12,054	27,277	13,944	6,325	19,726
Caviar and roe:						
Herring	24,908	11,298	45,869	21,940	9,952	23,519
Pollock	24,780	11,240	109,451	30,119	13,662	165,164
Salmon	16,389	7,434	71,557	21,343	9,681	105,219
Sea urchin	4,938	2,240	79,286	3,679	1,669	66,219
Other	20,919	9,489	64,176	18,020	8,174	73,678
Total, caviar and roe	91,934	41,701	370,339	95,102	43,138	433,799
Prepared meals	4,310	1,955	7,218	5,256	2,384	9,871
Other fish and shellfish	21,931	9,948	12,518	52,928	24,008	32,397
Total edible products	1,961,122	889,559	2,848,548	2,172,472	985,427	2,964,892
Nonedible products:						
Meal and scrap	192,512	87,323	51,540	209,177	94,882	75,327
Fish oils	232,546	105,482	35,833	142,225	64,513	24,074
Other	-	-	7,106,762	-	-	7,858,744
Total nonedible products	-	-	7,158,302	-	-	7,934,071
Grand total	-	-	10,006,850	-	-	10,898,963

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

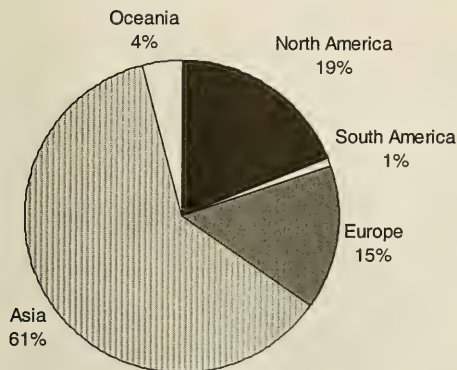
EDIBLE AND NONEDIBLE FISHERY PRODUCTS EXPORTS, 1991-2000 (1)

EDIBLE AND NONEDIBLE FIBER PRODUCTS EXPORTS, 1991-2000 (1)					
Year	Edible		Nonedible		Total
	Thousand pounds	Metric tons	-----Thousand dollars-----		
1991	2,058,594	933,772	3,155,771	3,386,037	6,541,808
1992	2,087,606	946,932	3,465,667	3,653,965	7,119,632
1993	1,986,027	900,856	3,076,813	3,847,911	6,924,724
1994	1,978,507	897,445	3,126,120	4,254,741	7,380,861
1995	2,047,181	928,595	3,262,242	5,005,878	8,268,120
1996	2,112,055	958,022	3,032,282	5,621,169	8,653,451
1997	2,018,889	915,762	2,713,082	6,640,553	9,353,635
1998	1,663,889	754,735	2,259,727	6,437,385	8,697,112
1999	1,961,122	889,559	2,848,548	7,158,302	10,006,850
2000	2,172,472	985,427	2,964,892	7,934,071	10,898,963

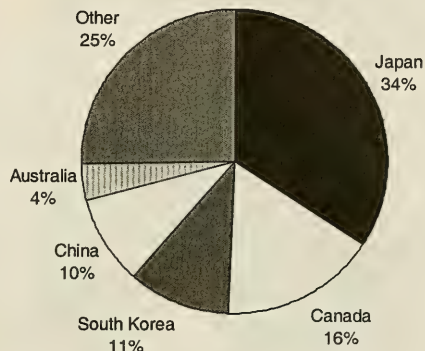
(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. Exports to Major Areas by Volume



U.S. Exports to Major Importers by Volume, 2000



U.S. Fishery Product Exports



EDIBLE AND NONEDIBLE FISHERY PRODUCTS EXPORTS, 2000 (1)

Continent and Country	Edible		Nonedible		Total
	Thousand pounds	Metric tons	-----Thousand dollars-----		
North America:					
Canada	356,744	161,818	673,560	1,585,186	2,258,746
Mexico	33,722	15,296	62,406	892,180	954,586
Netherlands Antilles	955	433	2,390	136,631	139,021
Dominican Republic	4,347	1,972	5,401	78,872	84,273
Panama	2,200	998	5,168	59,118	64,286
Other	12,778	5,796	27,999	307,548	335,547
Total	410,746	186,313	776,924	3,059,535	3,836,459
South America:					
Brazil	4,638	2,104	4,522	212,681	217,203
Venezuela	8,560	3,883	4,893	69,354	74,247
Argentina	758	344	723	69,513	70,236
Colombia	1,069	485	1,194	46,834	48,028
Chile	694	315	992	46,550	47,542
Other	1,887	856	5,067	90,454	95,521
Total	17,608	7,987	17,391	535,386	552,777
Europe:					
European Union:					
United Kingdom	44,709	20,280	79,367	291,413	370,780
Germany	37,121	16,838	47,024	185,776	232,800
Netherlands	17,864	8,103	26,158	204,543	230,701
France	53,365	24,206	89,516	128,575	218,091
Belgium	9,167	4,158	19,955	149,127	169,082
Other	117,280	53,198	156,850	271,166	428,016
Total	279,506	126,783	418,870	1,230,600	1,649,470
Other:					
Switzerland	13,223	5,998	8,488	466,479	474,967
Norway	21,894	9,931	24,764	10,573	35,337
Russian Federation	4,323	1,961	4,344	16,316	20,660
Turkey	183	83	381	11,189	11,570
Hungary	35	16	37	6,601	6,638
Other	7,240	3,284	6,160	30,643	36,803
Total	46,898	21,273	44,174	541,801	585,975
Asia:					
Japan	740,598	335,933	1,158,507	855,841	2,014,348
Hong Kong	35,591	16,144	43,410	387,127	430,537
South Korea	233,476	105,904	210,177	180,713	390,890
China	209,477	95,018	143,753	124,357	268,110
Taiwan	19,398	8,799	47,701	142,545	190,246
Other	87,615	39,742	62,380	601,225	663,605
Total	1,326,155	601,540	1,665,928	2,291,808	3,957,736
Oceania:					
Australia	84,008	38,106	35,069	130,136	165,205
New Zealand	1,645	746	994	29,747	30,741
French Polynesia	1,285	583	2,071	788	2,859
Fed.States of Micronesia	137	62	54	1,386	1,440
Fiji	1,486	674	597	97	694
Other	816	370	448	1,015	1,463
Total	89,377	40,541	39,233	163,169	202,402
Africa:					
South Africa	1,451	658	1,770	38,152	39,922
Swaziland	-	-	-	38,572	38,572
Egypt	123	56	59	15,587	15,646
Chad	-	-	-	5,261	5,261
Kenya	15	7	40	2,967	3,007
Other	593	269	503	11,233	11,736
Total	2,183	990	2,372	111,772	114,144
Grand total	2,172,472	985,427	2,964,892	7,934,071	10,898,963

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

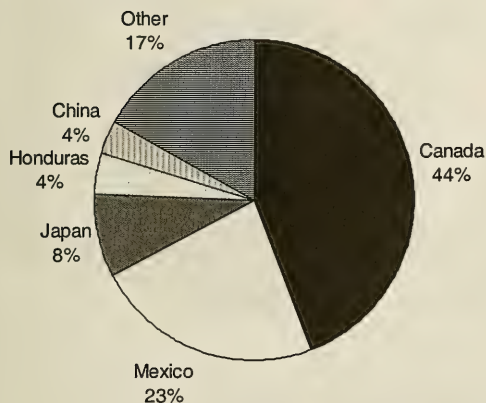
FRESH AND FROZEN SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1999 AND 2000 (1)

Country	1999			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Canada	15,176	6,884	59,458	15,260	6,922	61,304
Mexico	6,803	3,086	21,762	9,645	4,375	32,165
Japan	2,403	1,090	10,990	2,359	1,070	11,628
Honduras	1,204	546	4,250	1,272	577	5,721
China	2,478	1,124	7,269	1,757	797	4,942
Panama	489	222	2,251	564	256	3,454
Taiwan	494	224	1,547	542	246	2,255
Ecuador	694	315	3,111	467	212	1,790
Thailand	289	131	836	348	158	1,279
Other	2,833	1,285	11,286	3,653	1,657	14,609
Total	32,864	14,907	122,760	35,869	16,270	139,147

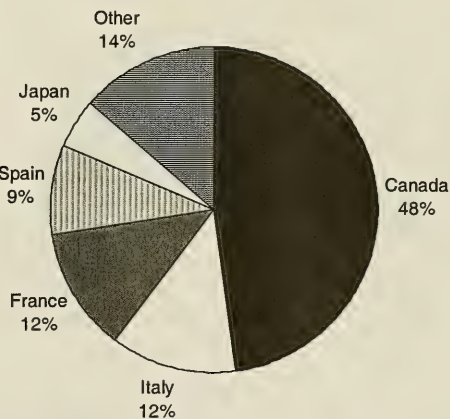
(1) Figures reflect both domestic and foreign (re-exports).

Source:—U.S. Department of Commerce, Bureau of the Census.

U.S. Exports of Shrimp, 2000



U.S. Exports of Lobster, 2000



FRESH AND FROZEN LOBSTER EXPORTS, BY COUNTRY OF DESTINATION, 1999 AND 2000 (1)

Country	1999			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Canada	34,143	15,487	134,328	37,882	17,183	139,296
Italy	6,349	2,880	35,002	6,762	3,067	36,404
France	5,520	2,504	28,992	6,272	2,845	35,159
Spain	4,484	2,034	22,964	4,773	2,165	26,176
Japan	1,878	852	12,332	1,922	872	14,232
Taiwan	791	359	6,232	1,232	559	9,660
Belgium	476	216	2,756	906	411	5,221
Germany	732	332	4,160	756	343	4,792
South Korea	234	106	1,588	518	235	4,122
Other	2,657	1,205	14,367	2,963	1,344	16,181
Total	57,264	25,975	262,721	63,986	29,024	291,243

(1) Figures reflect both domestic and foreign (re-exports).

Source:—U.S. Department of Commerce, Bureau of the Census.

FRESH AND FROZEN SALMON EXPORTS, WHOLE OR EVISCERATED, BY COUNTRY OF DESTINATION, 1999 AND 2000 (1)

Country	1999			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	106,021	48,091	232,579	84,247	38,214	178,247
Canada	56,025	25,413	75,880	66,026	29,949	88,248
China	5,443	2,469	8,374	10,922	4,954	16,322
France	10,007	4,539	13,950	14,050	6,373	14,238
Germany	6,598	2,993	6,464	10,463	4,746	11,416
Thailand	1,876	851	2,453	4,153	1,884	7,325
Spain	1,735	787	1,796	6,552	2,972	5,772
Belgium	2,449	1,111	3,365	3,935	1,785	5,220
United Kingdom	1,947	883	2,560	2,537	1,151	4,335
Other	18,439	8,364	24,057	16,731	7,589	22,472
Total	210,542	95,501	371,478	219,616	99,617	353,595

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

CANNED SALMON EXPORTS, BY COUNTRY OF DESTINATION, 1999 AND 2000 (1)

Country	1999			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
United Kingdom	54,414	24,682	97,544	31,762	14,407	55,787
Canada	29,817	13,525	54,255	25,340	11,494	53,991
Australia	10,179	4,617	16,824	9,859	4,472	14,149
Netherlands	6,122	2,777	9,632	4,156	1,885	6,682
Japan	194	88	282	913	414	2,343
France	3,435	1,558	6,388	1,590	721	2,041
Israel	236	107	227	966	438	1,584
Russian Federation	4,334	1,966	5,267	1,404	637	1,366
Belgium	935	424	1,406	957	434	1,312
Other	4,061	1,842	5,855	4,061	1,842	6,736
Total	113,726	51,586	197,680	81,006	36,744	145,991

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

FROZEN SURIMI EXPORTS, BY COUNTRY OF DESTINATION, 1999 AND 2000 (1)

Country	1999			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	177,541	80,532	199,475	195,164	88,526	188,984
South Korea	72,112	32,710	77,212	100,964	45,797	68,878
France	6,762	3,067	5,356	12,452	5,648	10,162
China	631	286	431	5,309	2,408	3,223
Taiwan	6,191	2,808	5,001	3,448	1,564	3,018
Germany	-	-	-	2,097	951	1,489
Lithuania	44	20	22	1,164	528	997
Denmark	838	380	967	1,687	765	941
Spain	926	420	909	1,299	589	905
Other	8,869	4,023	9,927	7,200	3,266	6,700
Total	273,913	124,246	299,300	330,783	150,042	285,297

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

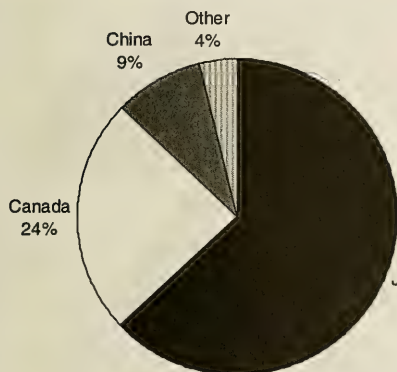
FRESH AND FROZEN CRAB EXPORTS, BY COUNTRY OF DESTINATION, 1999 AND 2000 (1)

Country	1999			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	32,946	14,944	94,574	15,016	6,811	76,838
Canada	14,733	6,683	25,192	17,315	7,854	29,689
China	7,604	3,449	19,649	2,736	1,241	10,703
United Kingdom	203	92	713	582	264	2,003
Taiwan	49	22	356	104	47	426
Thailand	192	87	420	66	30	407
South Korea	31	14	56	106	48	275
Belgium	53	24	190	68	31	251
French Polynesia	49	22	107	51	23	204
Other	926	420	2,651	348	158	1,199
Total	56,784	25,757	143,908	36,391	16,507	121,995

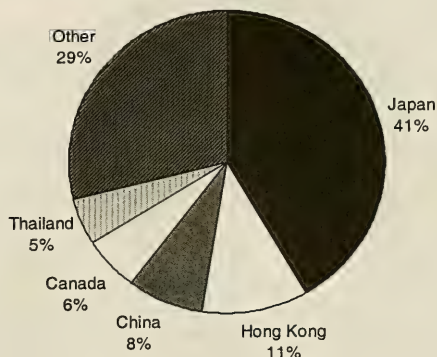
(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S Exports of Crabs, 2000



U.S Exports of Crabmeat, 2000



FRESH AND FROZEN CRABMEAT EXPORTS, BY COUNTRY OF DESTINATION, 1999 AND 2000 (1)

Country	1999			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	2,000	907	3,948	1,481	672	3,299
Hong Kong	157	71	527	258	117	862
China	437	198	905	306	139	603
Canada	126	57	420	123	56	460
Thailand	384	174	395	207	94	401
United Kingdom	20	9	49	141	64	391
Taiwan	2	1	11	174	79	355
Mexico	128	58	212	68	31	252
Dominican Republic	-	-	-	73	33	235
Other	589	267	1,350	476	216	1,055
Total	3,840	1,742	7,817	3,309	1,501	7,913

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

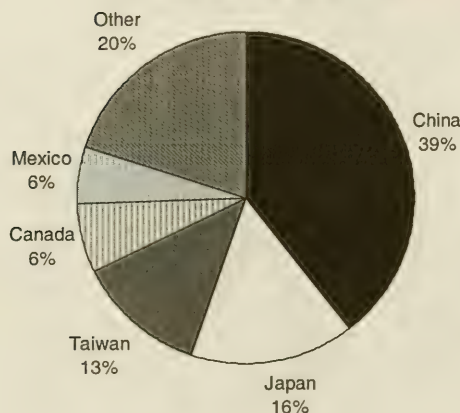
FISH MEAL EXPORTS, BY COUNTRY OF DESTINATION, 1999 AND 2000 (1)

Country	1999			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
China	59,339	26,916	11,972	79,557	36,087	29,705
Japan	22,661	10,279	9,371	24,925	11,306	12,015
Taiwan	26,224	11,895	9,094	20,992	9,522	9,419
Canada	20,917	9,488	4,643	22,258	10,096	4,876
Mexico	10,972	4,977	2,546	17,189	7,797	4,272
Germany	30,867	14,001	4,498	11,662	5,290	3,378
Portugal	-	-	-	2,191	994	2,162
Switzerland	-	-	-	1,276	579	2,038
South Korea	2,948	1,337	1,236	5,659	2,567	1,957
Other	18,585	8,430	8,180	23,466	10,644	5,505
Total	192,512	87,323	51,540	209,177	94,882	75,327

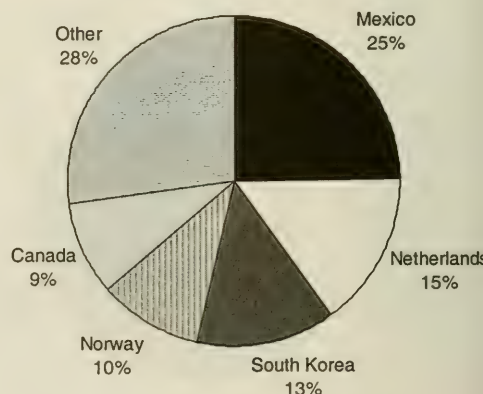
(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S Exports of Fish Meal, 2000



U.S Exports of Fish Oil, 2000



FISH AND MARINE ANIMAL OIL EXPORTS, BY COUNTRY OF DESTINATION, 1999 AND 2000 (1)

Country	1999			2000		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Mexico	30,346	13,765	3,375	58,384	26,483	5,979
Netherlands	87,964	39,900	10,536	36,246	16,441	3,679
South Korea	2,310	1,048	731	6,334	2,873	3,222
Norway	71,482	32,424	8,127	23,040	10,451	2,458
Canada	22,729	10,310	5,694	9,050	4,105	2,192
Hong Kong	661	300	469	3,183	1,444	1,781
Ireland	-	-	-	262	119	1,154
Japan	13,378	6,068	3,995	2,707	1,228	1,113
United Kingdom	304	138	301	542	246	587
Other	3,371	1,529	2,605	2,476	1,123	1,909
Total	232,546	105,482	35,833	142,225	64,513	24,074

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

Supply of Fishery Products

U.S. SUPPLY OF EDIBLE AND INDUSTRIAL FISHERY PRODUCTS, 1991-2000 (Round weight)

Year	Domestic commercial landings (1)	Imports	Exports	Total
----- Million pounds-----				
1991	9,484	6,879	4,719	11,644
1992	9,637	6,469	5,278	10,828
1993	10,467	9,867	5,578	14,756
1994	10,461	8,848	5,202	14,107
1995	9,788	6,696	5,252	11,232
1996	9,565	6,909	5,418	11,056
1997	9,842	7,290	5,537	11,595
1998	9,194	7,703	4,889	12,008
1999	9,339	8,039	5,207	12,171
2000	9,069	8,269	5,770	11,568

(1) Preliminary.

Note: The weight of U.S. landings and imports represent the round(live) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc) which are shown in weight of meats excluding the shell.

U.S. SUPPLY OF EDIBLE FISHERY PRODUCTS, 1991-2000 (Round weight)

Year	Domestic commercial landings (1)	Imports	Exports	Total
----- Million pounds-----				
1991	7,031	5,989	3,564	9,456
1992	7,618	5,624	4,123	9,119
1993	8,214	5,607	4,386	9,435
1994	7,936	5,778	4,306	9,408
1995	7,667	5,917	4,261	9,323
1996	7,474	6,150	4,374	9,250
1997	7,244	6,495	4,326	9,413
1998	7,173	7,001	3,709	10,465
1999	6,832	7,630	4,129	10,333
2000	6,912	7,827	4,599	10,140

(1) Preliminary.

U.S. SUPPLY OF INDUSTRIAL FISHERY PRODUCTS, 1991-2000 (Round weight)

Year	Domestic commercial landings (1)	Imports	Exports	Total
----- Million pounds-----				
1991	2,453	890	1,155	2,188
1992	2,019	845	1,448	1,416
1993	2,253	4,260	1,192	5,321
1994	2,525	3,070	896	4,699
1995	2,121	779	991	1,909
1996	2,091	759	1,044	1,806
1997	2,598	795	1,211	2,182
1998	2,021	702	1,180	1,543
1999	2,507	409	1,078	1,838
2000	2,157	442	1,171	1,428

(1) Preliminary.

Supply of Fishery Products

U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1999 and 2000

Item	Domestic commercial landings		Imports		Exports		Total	
	1999	2000	1999	2000	1999	2000	1999	2000
-----Thousand pounds--round weight-----								
Edible								
Finfish	5,490,493	5,637,273	5,340,994	5,367,872	3,670,657	4,090,856	7,160,830	6,914,289
Shellfish, et al	1,341,113	1,274,870	2,289,177	2,459,025	458,819	508,462	3,171,471	3,225,433
Subtotal	6,831,606	6,912,143	7,630,171	7,826,897	4,129,476	4,599,318	10,332,301	10,139,722
Industrial (1)								
Finfish	2,321,375	2,052,388	409,188	442,472	1,078,069	1,171,391	1,652,494	1,323,469
Shellfish, et al	186,053	104,454	(2)	(2)	(2)	(2)	186,053	104,454
Subtotal	2,507,428	2,156,842	409,188	442,472	1,078,069	1,171,391	1,838,547	1,427,923
Total:								
Finfish	7,811,868	7,689,661	5,750,182	5,810,344	4,748,726	5,262,247	8,813,324	8,237,758
Shellfish, et al	1,527,166	1,379,324	2,289,177	2,459,025	458,819	508,462	3,357,524	3,329,887
Grand total	9,339,034	9,068,985	8,039,359	8,269,369	5,207,545	5,770,709	12,170,848	11,567,645

(1) Includes only quantity harvested for fish meal.

(2) Not available.

NOTE: Total landings shown in this table may not agree with landings reported in other tables due to rounding.

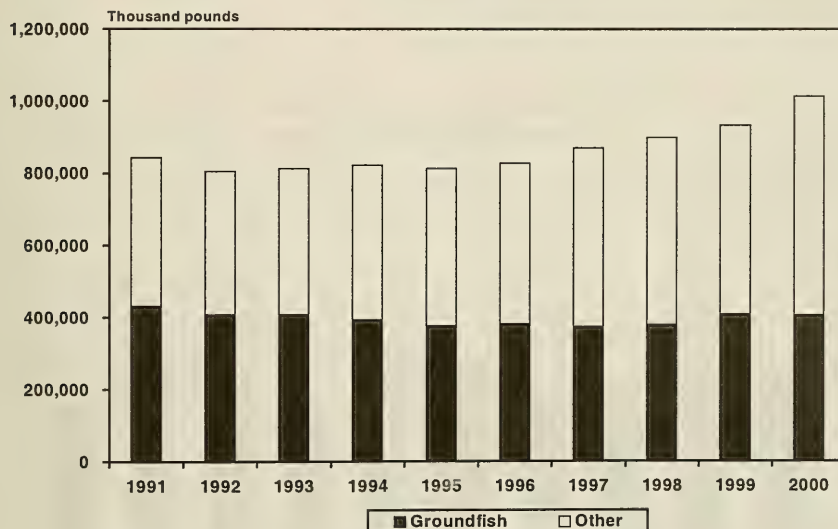
Supply of Fishery Products

U.S. SUPPLY OF ALL FILLETS AND STEAKS, 1991-2000 (Edible weight)

Year	U.S. production (1)	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1991	472,668	440,018	912,686	69,086	843,600
1992	448,664	408,059	856,723	52,247	804,476
1993	420,169	440,354	860,523	48,847	811,676
1994	425,022	439,059	864,081	43,252	820,829
1995	385,293	477,483	862,776	50,785	811,991
1996	423,309	476,469	899,778	74,368	825,410
1997	409,652	514,805	924,457	55,014	869,443
1998	422,418	578,561	1,000,979	101,016	899,963
1999	362,303	654,301	1,016,604	83,557	933,047
2000	369,311	734,711	1,104,022	88,865	1,015,157

(1) Includes fillets used to produce blocks.

U.S. Supply of Fillets and Steaks



U.S. SUPPLY OF GROUNDFISH FILLETS AND STEAKS, 1991-2000 (Edible weight)

Year	U.S. production (1)	Imports	Total	Exports (2)	Total supply
----- Thousand pounds -----					
1991	264,323	202,409	466,732	34,442	432,290
1992	252,358	172,755	425,113	17,507	407,606
1993	233,755	186,516	420,271	12,242	408,029
1994	220,357	189,097	409,454	17,639	391,815
1995	216,699	184,845	401,544	24,606	376,938
1996	245,406	178,209	423,615	41,691	381,924
1997	220,403	176,125	396,528	23,367	373,161
1998	255,291	186,937	442,228	63,481	378,747
1999	218,765	224,944	443,709	37,474	406,235
2000	233,186	224,955	458,141	52,549	405,592

(1) Includes fillets used to produce blocks. Species include cod, cusk, haddock, hake, pollock, and ocean perch.

(2) Species include: cod 1990-99; pollock 1991-99

Supply of Fishery Products

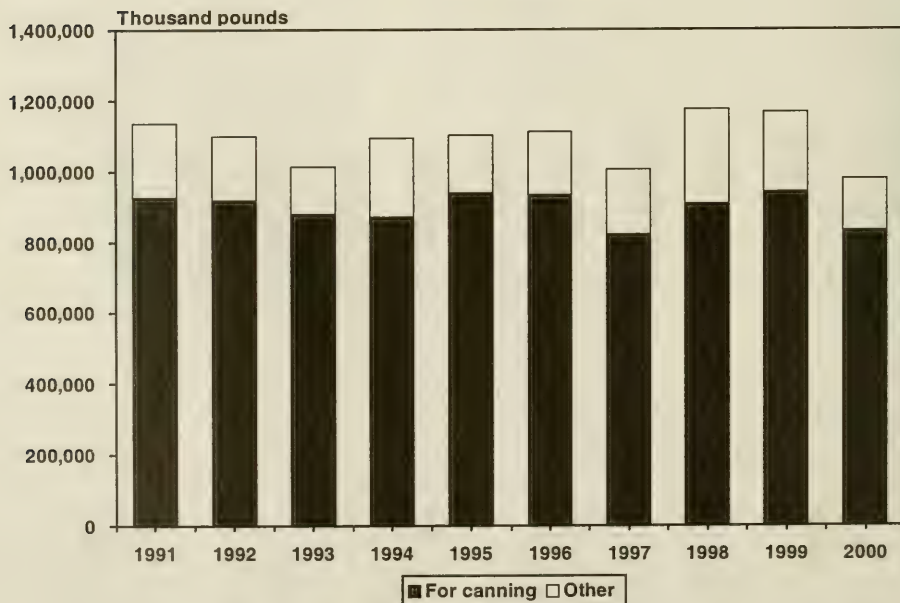
U.S. SUPPLY OF FRESH AND FROZEN TUNA, 1991-2000
(Round weight)

Year	U.S. commercial landings (1)			Imports (2)			Exports total	Total supply
	For canning	Other	Total	For canning	Other	Total		
	----- Thousand pounds -----							
1991	346,322	178,025	524,347	579,556	50,290	629,846	17,714	1,136,479
1992	435,924	137,933	573,857	482,677	63,524	546,201	20,011	1,100,047
1993	426,036	62,933	488,969	453,046	92,965	546,011	21,660	1,013,320
1994	401,732	157,695	559,427	469,514	92,352	561,866	28,512	1,092,781
1995	407,036	86,956	493,992	531,266	105,304	636,570	28,869	1,101,693
1996	364,652	91,612	456,264	567,266	119,247	686,513	31,382	1,111,395
1997	354,074	102,567	456,641	467,526	105,806	573,332	24,092	1,005,881
1998	318,144	161,305	479,449	590,568	137,852	728,420	34,026	1,173,843
1999	368,716	111,658	480,374	571,976	135,966	707,942	22,018	1,166,298
2000	281,982	54,668	336,650	550,552	107,116	657,668	17,154	977,164

(1) Includes a quantity of fish landed at other ports by U.S.-flag vessels.

(2) Includes landings in American Samoa of foreign caught fish.

U.S. Supply of Fresh and Frozen Tuna



Supply of Fishery Products

U.S. SUPPLY OF CANNED SARDINES, 1991-2000 (Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1991	13,986	48,515	62,501	10,668	51,833
1992	17,437	36,511	53,948	12,690	41,258
1993	14,354	39,111	53,465	12,275	41,190
1994	15,560	43,942	59,502	11,010	48,492
1995	13,567	42,280	55,847	11,773	44,074
1996	17,672	40,926	58,598	12,207	46,391
1997	15,976	42,771	58,747	9,321	49,426
1998	11,842	44,328	56,170	6,314	49,856
1999	12,017	48,722	60,739	3,803	56,936
2000	(1)	62,236	NA	9,323	NA

(1) Data are confidential

NA Not available

U.S. SUPPLY OF CANNED SALMON, 1991-2000 (Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1991	195,744	983	196,727	66,134	130,593
1992	149,453	974	150,427	77,895	72,532
1993	198,344	428	198,772	84,610	114,162
1994	206,841	1,093	207,934	90,915	117,019
1995	243,568	1,202	244,770	98,197	146,573
1996	197,163	2,266	199,429	95,530	103,899
1997	162,106	1,228	163,334	81,621	81,713
1998	158,798	1,323	160,121	77,450	82,671
1999	234,155	2,229	236,384	113,726	122,658
2000	171,125	5,161	176,286	81,006	95,280

U.S. SUPPLY OF CANNED TUNA, 1991-2000 (Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1991	592,786	351,744	944,530	11,310	933,220
1992	608,981	323,413	932,394	10,141	922,253
1993	618,743	224,419	843,162	8,534	834,628
1994	609,514	249,043	858,557	8,391	850,166
1995	666,581	215,365	881,946	7,385	874,561
1996	675,816	193,037	868,853	9,866	858,987
1997	627,032	212,171	839,203	9,967	829,236
1998	680,860	240,409	921,269	9,319	911,950
1999	693,816	334,537	1,028,353	7,945	1,020,408
2000	671,330	312,967	984,297	4,253	980,044

Supply of Fishery Products

U.S. SUPPLY OF KING CRAB, 1991-2000 (Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (1)	Total supply
----- Thousand pounds -----					
1991	28,140	7,087	35,227	15,320	19,907
1992	19,056	11,958	31,014	16,241	14,773
1993	24,732	7,395	32,127	24,372	7,755
1994	11,960	15,035	26,995	15,013	11,982
1995	14,673	18,360	33,033	11,847	21,186
1996	21,000	26,533	47,533	17,650	29,883
1997	18,027	39,666	57,693	12,516	45,177
1998	24,122	51,655	75,777	13,575	62,202
1999	16,920	46,922	63,842	11,483	52,359
2000	15,098	40,233	55,331	15,851	39,480

(1) Imports, exports, foreign exports converted to round (live) weight by using these conversion factors: frozen, 1.75; meat, 4.50; and canned, 5.33.

U.S. SUPPLY OF SNOW (TANNER) CRABS, 1991-2000 (Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
----- Thousand pounds -----					
1991	357,122	19,091	376,213	(3) 316,162	60,051
1992	350,039	18,882	368,921	281,214	87,707
1993	255,733	31,224	286,957	220,618	66,339
1994	159,574	27,446	187,020	147,006	40,014
1995	80,817	20,969	101,786	59,805	41,981
1996	67,867	28,336	96,203	50,509	45,694
1997	118,898	41,959	160,857	50,604	110,253
1998	251,831	60,166	311,997	58,366	253,631
1999	185,162	110,041	295,203	78,918	216,285
2000	34,497	119,443	153,940	32,239	121,701

(1) Converted to round(live) weight by multiplying fresh and frozen by 1.50; meat, 4.50; and canned, 5.00.

(2) Domestic merchandise converted to round(live) weight by multiplying frozen weight by 2.13 (believed to be mostly sections); meat, 4.50; and canned, 5.33. Foreign exports converted using the same factors as imports.

(3) Estimated, based on available foreign import data.

U.S. SUPPLY OF CANNED CRABMEAT, 1991-2000 (Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1991	77	11,385	11,462	525	10,937
1992	99	9,577	9,676	789	8,887
1993	70	9,817	9,887	668	9,219
1994	17	9,852	9,869	511	9,358
1995	65	12,441	12,506	276	12,230
1996	93	12,773	12,866	337	12,529
1997	83	15,871	15,954	608	15,346
1998	67	22,020	22,087	558	21,529
1999	27	27,707	27,734	1,329	26,405
2000	28	31,246	31,274	2,593	28,681

Supply of Fishery Products

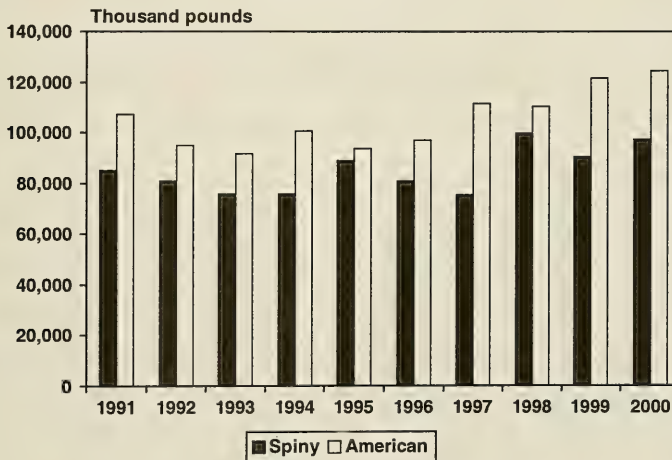
U.S. SUPPLY OF AMERICAN LOBSTERS, 1991-2000 (Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
----- Thousand pounds -----					
1991	63,337	65,381	128,718	21,485	107,233
1992	55,841	59,335	115,176	20,332	94,844
1993	56,513	55,570	112,083	20,354	91,729
1994	66,416	65,949	132,365	31,646	100,719
1995	66,406	62,923	129,329	35,587	93,742
1996	71,641	65,379	137,020	39,919	97,101
1997	83,921	73,033	156,954	45,262	111,692
1998	79,642	73,601	153,243	42,874	110,369
1999	87,469	90,830	178,299	56,755	121,544
2000	83,180	105,695	188,875	64,456	124,419

(1) Only imports from Canada and St. Pierre and Miquelon are considered American lobsters and were converted to round weight by using these conversion factors: 1.00, whole; 4.50, meat; and 4.64, canned.

(2) Domestic exports conversion to live weight by 1.00, whole; 4.00, meat; and 4.50, canned. Foreign exports converted using import factors.

U.S. Supply of Lobster



U.S. SUPPLY OF SPINY LOBSTERS, 1991-2000 (Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
----- Thousand pounds -----					
1991	7,096	81,332	88,428	3,388	85,040
1992	4,872	77,848	82,720	2,001	80,719
1993	6,076	70,884	76,960	1,306	75,654
1994	8,104	68,787	76,891	1,304	75,587
1995	7,123	86,900	94,023	5,035	88,988
1996	8,308	75,595	83,903	3,033	80,870
1997	7,240	74,120	81,360	5,842	75,518
1998	5,935	95,801	101,736	1,802	99,934
1999	6,692	86,240	92,932	2,346	90,586
2000	6,463	94,433	100,896	3,528	97,368

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 3.00, tails; 4.35, other; and 4.50 canned.

(2) Domestic exports converted to round (live) weight by using: 1.00, whole; 3.00, tails; 4.00, other; and 4.50, canned. Foreign exports converted using import factors.

Supply of Fishery Products

U.S. SUPPLY OF CLAMS, 1991-2000 (Meat weight)

Year	U.S. commercial landings (1)	Imports (2)	Total	Exports	Total supply
----- Thousand pounds -----					
1991	134,243	12,291	146,534	2,948	143,586
1992	142,449	14,262	156,711	1,662	155,049
1993	147,752	9,579	157,331	1,809	155,522
1994	131,427	15,507	146,934	2,617	144,317
1995	134,224	12,645	146,869	2,853	144,016
1996	123,239	14,340	137,579	3,448	134,131
1997	114,180	13,184	127,364	3,651	123,713
1998	107,959	15,666	123,625	4,318	119,307
1999	112,230	16,315	128,545	3,898	124,647
2000	118,482	17,768	136,250	3,627	132,623

(1) For species breakout see table on page 1.

(2) Imports and exports were converted to meat weight by using these conversion factors: 0.40 in shell or shucked; 0.30, canned chowder and juice; and 0.93, other.

U.S. SUPPLY OF OYSTERS, 1991-2000 (Meat weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports	Total supply
----- Thousand pounds -----					
1991	31,859	30,547	62,406	739	61,667
1992	36,156	26,529	62,685	797	61,888
1993	33,575	28,244	61,819	1,131	60,688
1994	38,086	24,694	62,780	1,988	60,792
1995	40,380	24,200	64,580	1,908	62,672
1996	38,007	21,708	59,715	1,648	58,067
1997	39,652	20,533	60,185	2,191	57,994
1998	33,538	29,575	63,113	1,877	61,236
1999	26,983	30,012	56,995	2,047	54,948
2000	41,146	32,735	73,881	2,447	71,434

(1) Imports and exports were converted to meat weight by using these conversion factors: 0.93, canned; 3.12, canned smoked; and 0.75, other.

U.S. SUPPLY OF SCALLOPS, 1991-2000 (Meat weight)

Year	U.S. commercial landings (1)	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1991	39,740	29,528	69,268	7,083	62,185
1992	33,884	38,682	72,566	3,589	68,977
1993	18,638	51,973	70,611	4,147	66,464
1994	25,469	56,676	82,145	5,990	76,155
1995	19,526	48,331	67,857	5,926	61,931
1996	18,197	58,686	76,883	6,191	70,692
1997	15,474	60,146	75,620	9,861	65,759
1998	13,166	52,445	65,611	7,306	58,305
1999	27,178	44,079	71,257	6,982	64,275
2000	32,772	53,649	86,421	9,114	77,307

(1) For species breakout see table on page 1.

Supply of Fishery Products

U.S. SUPPLY OF ALL FORMS OF SHRIMP, 1991-2000 (Heads-off weight)

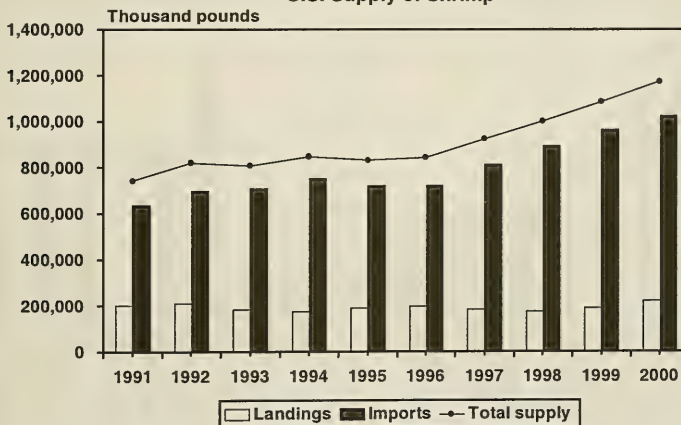
Year	U.S. commercial landings (1)	Imports (2)	Total	Exports (3)	Total supply
----- Thousand pounds -----					
1991	198,115	632,775	830,890	87,186	743,704
1992	207,086	694,254	901,340	81,604	819,736
1993	180,687	708,683	889,370	81,447	807,923
1994	174,969	749,993	924,962	77,755	847,207
1995	190,208	719,463	909,671	77,677	831,994
1996	195,902	720,852	916,754	75,130	841,624
1997	179,084	810,696	989,780	66,674	923,106
1998	173,304	893,578	1,066,882	65,302	1,001,580
1999	189,112	959,915	1,149,027	65,427	1,083,600
2000	218,542	1,024,476	1,243,018	71,250	1,171,768

(1) Commercial landings were converted to heads-off weight by using these conversion factors: South Atlantic and Gulf 0.629; and New England, Pacific and other, 0.57.

(2) Imports were converted to heads-off weight by using these conversion factors: breaded, 0.63; shell-on, 1.00; peeled raw, 1.28; canned, 2.52; and other, 2.40.

(3) Exports were converted to heads-off weight by using these conversion factors: domestic fresh and frozen, 1.18; canned, 2.02; other, 2.40; foreign—fresh and frozen, 1.00; canned, 2.52; and other, 2.40.

U.S. Supply of Shrimp



U.S. SUPPLY OF CANNED SHRIMP, 1991-2000 (Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1991	632	9,361	9,993	2,352	7,641
1992	640	9,273	9,913	1,931	7,982
1993	658	8,170	8,828	2,557	6,271
1994	463	6,314	6,777	1,841	4,936
1995	912	6,570	7,482	3,250	4,232
1996	819	3,563	4,382	2,665	1,717
1997	1,168	3,620	4,788	1,470	3,318
1998	2,253	3,406	5,659	1,660	3,999
1999	1,955	2,945	4,900	2,355	2,545
2000	1,910	3,655	5,565	2,549	3,016

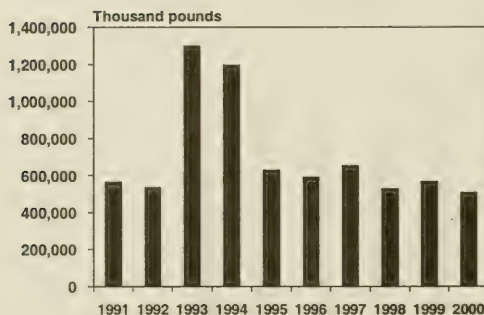
Supply of Fishery Products

U.S. SUPPLY OF FISH MEAL, 1991-2000
(Product weight)

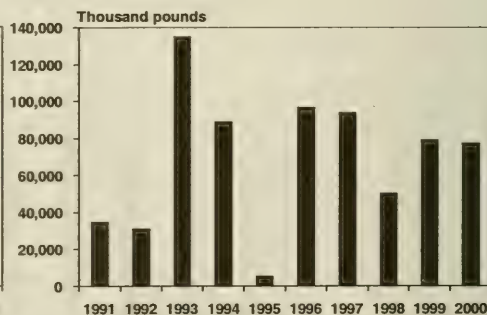
Year	U.S. production (1)	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1991	612,716	158,916	771,632	206,320	565,312
1992	644,512	150,911	795,423	258,511	536,912
1993	750,744	760,664	1,511,408	212,859	1,298,549
1994	807,833	548,288	1,356,121	159,937	1,196,184
1995	667,240	139,101	806,341	176,981	629,360
1996	643,124	135,561	778,685	186,412	592,273
1997	724,668	142,049	866,717	216,289	650,428
1998	613,434	125,404	738,838	210,658	528,180
1999	686,250	73,069	759,319	192,512	566,807
2000	638,240	79,013	717,253	209,177	508,076

(1) Includes shellfish meal.

U.S. Supply of Fish Meal



U.S. Supply of Fish Oils



U.S. SUPPLY OF FISH OILS, 1991-2000
(Product weight)

Year	U.S. production	Imports	Total	Exports	Total supply
----- Thousand pounds -----					
1991	267,345	21,828	289,173	254,525	34,648
1992	184,725	23,772	208,497	177,444	31,053
1993	293,452	26,052	319,504	184,488	135,016
1994	291,189	40,642	331,831	242,788	89,043
1995	241,941	23,913	265,854	260,394	5,460
1996	248,399	35,622	284,021	187,294	96,727
1997	283,379	25,622	309,001	215,255	93,746
1998	222,697	24,213	246,910	196,664	50,246
1999	286,182	25,677	311,859	232,546	79,313
2000	192,348	27,220	219,568	142,225	77,343

Per Capita Consumption

The NMFS calculation of per capita consumption is based on a "disappearance" model. The total U.S. supply of imports and landings is converted to edible weight, and decreases in supply such as exports and inventories are subtracted out. The remaining total is divided by a population value to estimate per capita consumption. Data for the model are derived primarily from secondary sources and are subject to incomplete reporting; changes in source data or invalid model assumptions may each have a significant effect on the resulting calculation.

U.S. per capita consumption of fish and shellfish was 15.6 pounds (edible meat) in 2000. This total was 0.2 pounds more than the revised 15.4 pounds consumed in 1999. Per capita consumption of fresh and frozen products was 10.5 pounds, 0.1 pound more than 1999.

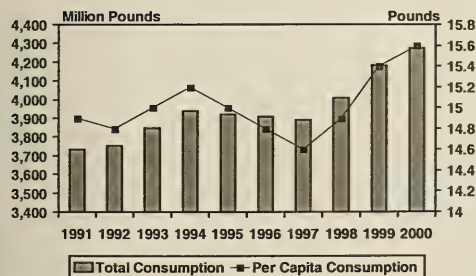
Fresh and frozen finfish accounted for 5.8 pounds while fresh and frozen shellfish consumption was 4.7 pounds per capita. The fresh and frozen finfish includes approximately 1.1 pounds of farm raised catfish.

Consumption of canned fishery products was 4.8 pounds per capita in 2000, 0.1 pounds more than the revised 4.7 in 1999. Cured fish accounted for 0.3 pound per capita, the same as in previous years. Imports of edible seafood made up 68 percent of the consumption.

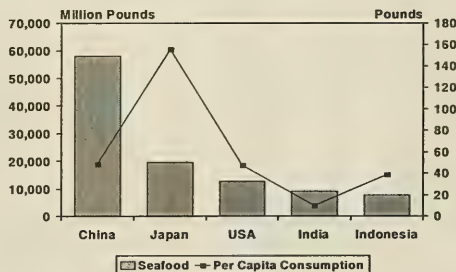
PER CAPITA USE. Per capita use is based on the supply of fishery products, both edible and non-edible (industrial), on a round-weight equivalent basis without considering beginning or ending stocks, defense purchases, or exports. The per capita use of all edible and industrial fishery products in 2000 was 62.9 pounds, down 0.8 pounds compared with 1999.

WORLD CONSUMPTION. The FAO calculation for apparent consumption is also based on a disappearance model. The three year average considers, on a round weight equivalent basis, a country's landings, imports, and exports. The 1995-97 data indicates that the United States ranks as the third largest consumer of seafood in the world.

U.S. Consumption 1991 - 2000
(Edible Meat Weight)



Fish and Fishery Products
Apparent Consumption Average 1995-1997
(Live Weight Equivalent)



Per Capita Consumption U.S. Consumption

Annual per capita consumption of seafood products represents the pounds of edible meat consumed from domestically-caught and imported fish and shellfish adjusted for beginning and ending inventories and exports, divided by the civilian population of the United States as of July 1 of each year.

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1910-2000

Year	Civilian resident population July 1 (1) Million persons	Per capita consumption			
		Fresh and frozen (2)	Canned (3)	Cured (4)	Total
		-----Pounds, edible meat-----			
1910	92.2	4.5	2.8	3.9	11.2
1920	106.5	6.3	3.2	2.3	11.8
1930	122.9	5.8	3.4	1.0	10.2
1940	132.1	5.7	4.6	0.7	11.0
1950	150.8	6.3	4.9	0.6	11.8
1960	178.1	5.7	4.0	0.6	10.3
1970	201.9	6.9	4.5	0.4	11.8
1980	225.6	7.9	4.3	0.3	12.5
1981	227.8	7.8	4.6	0.3	12.7
1982	230.0	7.9	4.3	0.3	12.5
1983	232.1	8.4	4.7	0.3	13.4
1984	234.1	9.0	4.9	0.3	14.2
1985	236.2	9.8	5.0	0.3	15.1
1986	238.4	9.8	5.4	0.3	15.5
1987	240.6	10.7	5.2	0.3	16.2
1988	242.8	10.0	4.9	0.3	15.2
1989	245.1	10.2	5.1	0.3	15.6
1990	247.8	9.6	5.1	0.3	15.0
1991	250.5	9.7	4.9	0.3	14.9
1992	253.5	9.9	4.6	0.3	14.8
1993	256.4	10.2	4.5	0.3	15.0
1994	259.2	10.4	4.5	0.3	15.2
1995	261.4	10.0	4.7	0.3	15.0
1996	264.0	10.0	4.5	0.3	14.8
1997	266.4	9.9	4.4	0.3	14.6
1998	269.1	10.2	4.4	0.3	14.9
1999	271.5	10.4	4.7	0.3	15.4
2000	273.9	10.5	4.8	0.3	15.6

(1) Resident population for 1910 and 1920 and civilian resident population for 1930 to date.

(2) Fresh and frozen fish consumption for 1910 and 1920 is estimated. Beginning in 1973, data include consumption of cultivated catfish.

(3) Canned fish consumption for 1920 is estimated. Beginning in 1921, it is based on production reports, packer stocks, and foreign trade statistics for individual years.

(4) Cured fish consumption for 1910 and 1920 is estimated.

*Record years: Fresh and Frozen—10.7 lb, 1987; Canned—5.8, 1936; Cured—4.0, 1909; and Total—16.2 lb, 1987.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1980-2000

Year	Salmon	Sardines	Tuna	Shellfish	Other	Total
----- Pounds -----						
1980	0.5	0.3	3.0	0.4	0.1	4.3
1981	0.5	0.4	3.0	0.4	0.3	4.6
1982	0.5	0.3	2.8	0.4	0.3	4.3
1983	0.5	0.2	3.2	0.4	0.4	4.7
1984	0.6	0.2	3.2	0.4	0.5	4.9
1985	0.5	0.3	3.3	0.5	0.4	5.0
1986	0.5	0.3	3.6	0.5	0.5	5.4
1987	0.4	0.3	3.5	0.5	0.5	5.2
1988	0.3	0.3	3.6	0.4	0.3	4.9
1989	0.3	0.3	3.9	0.4	0.2	5.1
1990	0.4	0.3	3.7	0.3	0.4	5.1
1991	0.5	0.2	3.6	0.4	0.2	4.9
1992	0.5	0.2	3.5	0.3	0.1	4.6
1993	0.4	0.2	3.5	0.3	0.1	4.5
1994	0.4	0.2	3.3	0.3	0.3	4.5
1995	0.5	0.2	3.4	0.3	0.3	4.7
1996	0.5	0.2	3.2	0.3	0.3	4.5
1997	0.4	0.2	3.1	0.3	0.4	4.4
1998	0.3	0.2	3.4	0.3	0.2	4.4
1999	0.3	0.2	3.5	0.4	0.3	4.7
2000	0.3	0.2	3.6	0.4	0.3	4.8

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1980-2000

Year	Filletts and steaks (1)	Sticks and portions	Shrimp, all preparation
----- Pounds (2) -----			
1980	2.4	2.0	1.4
1981	2.4	1.8	1.5
1982	2.5	1.7	1.5
1983	2.7	1.8	1.7
1984	3.0	1.8	1.9
1985	3.2	1.8	2.0
1986	3.4	1.8	2.2
1987	* 3.6	1.7	2.4
1988	3.2	1.5	2.4
1989	3.1	1.5	2.3
1990	3.1	1.5	2.2
1991	3.0	1.2	2.4
1992	2.9	0.9	2.5
1993	2.9	1.0	2.5
1994	3.1	0.9	2.6
1995	2.9	1.2	2.5
1996	3.0	1.0	2.5
1997	3.0	1.0	2.7
1998	3.2	0.9	2.8
1999	3.2	1.0	3.0
2000	3.4	0.9	* 3.2

(1) Data include groundfish and other species. Data do not include blocks, but filletts could be made into blocks from which sticks and portions could be produced.

(2) Products weight of filletts and steaks, sticks and portions; edible (meat) weight of shrimp.

*Record

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1995-97 AVERAGE

Region and Country	Estimated live weight equivalent		Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds		Kilograms	Pounds
North America:			Europe - Continued:		
Canada	22.2	48.9	Bosnia-Herzegovina	1.2	2.6
Greenland	84.1	185.4	Bulgaria	2.0	4.4
St. Pierre and Miquelon	68.6	151.2	Croatia	3.6	7.9
United States	20.9	46.1	Czech Republic	8.6	19.0
			Denmark	23.6	52.0
			Estonia	20.4	45.0
Caribbean:			Faeroe Island	86.1	189.8
Antigua	23.9	52.7	Finland	32.8	72.3
Aruba	7.6	16.8	France	28.4	62.6
Bahamas	22.0	48.5	Georgia	1.6	3.5
Barbados	30.4	67.0	Germany	12.4	27.3
Bermuda	37.9	83.6	Greece	25.4	56.0
Cayman Islands	13.3	29.3	Hungary	4.0	8.8
Cuba	12.4	27.3	Iceland	91.1	200.8
Dominica	29.6	65.3	Ireland	16.8	37.0
Dominican Republic	8.1	17.9	Italy	22.0	48.5
Grenada	23.8	52.5	Kazakhstan	2.6	5.7
Guadeloupe	40.5	89.3	Kyrgyzstan	0.4	0.9
Haiti	2.6	5.7	Latvia	21.8	48.1
Jamaica	15.4	34.0	Lithuania	16.9	37.3
Martinique	37.6	82.9	Macedonia	4.3	9.5
Netherlands Antilles	18.8	41.4	Malta	27.4	60.4
Saint Lucia	22.0	48.5	Moldova	1.3	2.9
St. Vincent	15.3	33.7	Netherlands	15.4	34.0
Trinidad-Tobago	12.2	26.9	Norway	50.1	110.5
Turks & Caicos	40.2	88.6	Poland	10.5	23.1
			Portugal	59.8	131.8
			Romania	2.3	5.1
Latin America:			Russian Federation	19.5	43.0
Argentina	11.1	24.5	Slovakia	7.1	15.7
Belize	6.7	14.8	Slovenia	6.9	15.2
Bolivia	1.4	3.1	Spain	40.5	89.3
Brazil	6.9	15.2	Sweden	26.1	57.5
Chile	22.3	49.2	Switzerland	13.8	30.4
Colombia	4.5	9.9	Tajikistan	0.1	0.2
Costa Rica	5.2	11.5	Turkmenistan	2.2	4.9
Ecuador	7.2	15.9	Ukraine	6.8	15.0
El Salvador	2.5	5.5	United Kingdom	20.1	44.3
French Guiana	32.5	71.6	Uzbekistan	0.5	1.1
Guatemala	1.1	2.4	Yugoslavia	2.1	4.6
Guyana	55.3	121.9			
Honduras	3.0	6.6	Near East:		
Mexico	10.5	23.1	Afghanistan	0.1	0.2
Nicaragua	1.3	2.9	Bahrain	16.2	35.7
Panama	14.6	32.2	Cyprus	21.0	46.3
Paraguay	5.1	11.2	Egypt	9.3	20.5
Peru	25.4	56.0	Iran	5.0	11.0
Suriname	24.4	53.8	Iraq	1.6	3.5
Uruguay	7.1	15.7	Israel	22.6	49.8
Venezuela	20.1	44.3	Jordan	4.3	9.5
			Kuwait	12.5	27.6
Europe:			Lebanon	6.0	13.2
Albania	1.3	2.9	Libya	6.5	14.3
Armenia	1.2	2.6	Oman	24.0	52.9
Austria	10.6	23.4	Qatar	12.3	27.1
Azerbaijan	1.2	2.6	Saudi Arabia	6.5	14.3
Belarus	1.0	2.2	Sudan	1.7	3.7
Belgium and Luxembourg	19.6	43.2	Syria	1.0	2.2
			Turkey	8.3	18.3
			United Arab Emirates	27.4	60.4
			Yemen Republic	7.0	15.4

See note at end of table.

(Continued on next page)

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1995-97 AVERAGE

Region and Country	Estimated live weight equivalent		Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds		Kilograms	Pounds
Far East:			Africa - Continued:		
Bangladesh	10.1	22.3	Liberia	5.0	11.0
Brunei	28.6	63.1	Madagascar	6.4	14.1
Burma	16.9	37.3	Malawi	5.9	13.0
Cambodia	9.1	20.1	Mali	11.3	24.9
China	24.1	53.1	Mauritania	10.1	22.3
Hong Kong	56.6	124.8	Mauritius	21.8	48.1
India	4.6	10.1	Morocco	7.4	16.3
Indonesia	17.9	39.5	Mozambique	2.0	4.4
Japan	69.0	152.1	Namibia	12.1	26.7
Laos	8.9	19.6	Niger	0.7	1.5
Macao	35.7	78.7	Nigeria	6.3	13.9
Maldives	169.8	374.3	Reunion	19.3	42.5
Malaysia	55.7	60.6	Rwanda	0.6	1.3
Mongolia	0.1	0.2	Sao Tome	22.4	49.4
Nepal	1.0	2.2	Senegal	32.5	71.6
North Korea	16.9	37.3	Seychelles	64.9	143.1
Pakistan	2.0	4.4	Sierra Leone	12.4	27.3
Philippines	31.0	68.3	Somalia	1.4	3.1
Singapore	32.4	71.4	South Africa	7.7	17.0
South Korea	51.2	112.9	St. Helena	68.1	150.1
Sri Lanka	18.8	41.4	Swaziland	0.2	0.4
Taiwan	37.3	82.2	Tanzania	10.7	23.6
Thailand	32.4	71.4	Togo	15.7	34.6
Vietnam	16.9	37.3	Tunisia	9.3	20.5
			Uganda	9.5	20.9
			Zambia	8.4	18.5
			Zimbabwe	3.5	7.7
Africa:			Oceania:		
Algeria	3.7	8.2	Australia	19.1	42.1
Angola	7.5	16.5	Cook Island	54.1	119.3
Benin	9.2	20.3	Fiji	32.7	72.1
Botswana	5.0	11.0	French Polynesia	63.4	139.8
Burkina	1.2	2.6	Kiribati	74.2	163.6
Burundi	2.5	5.5	Marshall Islands	6.6	14.6
Cameroon	9.8	21.6	Micronesia	40.8	89.9
Cape Verde	24.9	54.9	Nauru	37.9	83.6
Central African Rep	4.0	8.8	New Caledonia	22.1	48.7
Chad	6.8	15.0	New Zealand	22.4	49.4
Comoros	21.7	47.8	Niue	56.3	124.1
Congo (Brazzaville)	25.9	57.1	Palau	102.4	225.8
Congo (Kinshasa)	5.9	13.0	Papua New Guinea	14.8	32.6
Djibouti	2.0	4.4	Solomon Islands	40.6	89.5
Equatorial Guinea	20.1	44.3	Tokelau	152.5	336.2
Eritrea	0.8	1.8	Tonga	33.4	73.6
Ethiopia	0.1	0.2	Tuvalu	20.0	44.1
Gabon	47.5	104.7	Vanuatu	26.1	57.5
Gambia	22.4	49.4	Wallis and Futuna Islands	12.5	27.6
Ghana	21.8	48.1	Western Samoa	55.5	122.4
Guinea	14.1	31.1			
Guinea-Bissau	3.3	7.3			
Ivory Coast	11.6	25.6			
Kenya	5.3	11.7			
Lesotho	0.0	0.0			
			World	15.7	34.6

Note:—Data for most countries are tentative. Aquatic plants are included where applicable.

Source:—Food and Agriculture Organization of the United Nations (FAO)

Per capita use of commercial fish and shellfish is based on the supply of fishery products, both edible and nonedible (industrial), on a round weight equivalent basis, without considering the beginning or ending stocks, defense purchases, or export.

Per capita use figures are not comparable with per capita consumption data. Per capita consumption figures represent edible (for human use) meat weight consumption rather than round weight consumption. In addition, per capita consumption includes allowances for beginning and ending stocks and exports, whereas the use does not include such allowances.

Per capita use is derived by using total population including U.S. Armed Forces overseas. The per capita consumption is derived by using civilian resident population.

U.S. ANNUAL PER CAPITA USE OF COMMERCIAL FISH AND SHELLFISH, 1960-2000 (1)

Year	Total population including armed forces overseas July 1	U.S. supply	Per capita utilization		
			Commercial landings	Imports	Total
	<u>Million persons</u>	<u>Million pounds</u>	<u>Pounds</u>		
1960	180.7	8,223	27.3	18.2	45.5
1961	183.7	9,570	28.2	23.9	52.1
1962	186.5	10,408	28.7	27.1	55.8
1963	189.2	11,434	25.6	34.8	60.4
1964	191.9	12,031	23.7	39.0	62.7
1965	194.3	10,535	24.6	29.6	54.2
1966	196.6	12,469	22.2	41.2	63.4
1967	198.7	13,991	20.4	50.0	70.4
1968	200.7	17,381	20.7	65.9	86.6
1969	202.7	11,847	21.4	37.0	58.4
1970	205.1	11,474	24.0	31.9	55.9
1971	207.7	11,804	24.1	32.7	56.8
1972	209.9	13,849	22.9	43.1	66.0
1973	211.9	10,378	22.9	26.1	49.0
1974	213.9	9,875	23.2	23.0	46.2
1975	216.0	10,164	22.6	24.5	47.1
1976	218.0	11,593	24.7	28.5	53.2
1977	220.2	10,652	23.9	24.4	48.3
1978	222.6	11,509	27.1	24.6	51.7
1979	225.1	11,831	27.9	24.7	52.6
1980	227.7	11,357	28.5	21.4	49.9
1981	230.0	11,353	26.0	23.4	49.4
1982	232.2	12,011	27.4	24.3	51.7
1983	234.3	12,352	27.5	25.2	52.7
1984	236.3	12,552	27.3	25.8	53.1
1985	238.5	15,150	26.2	37.3	63.5
1986	240.7	14,368	25.1	34.6	59.7
1987	242.8	15,744	28.4	36.4	64.8
1988	245.0	14,628	29.3	30.4	59.7
1989	247.3	15,485	34.2	28.4	62.6
1990	249.9	16,349	37.6	27.8	65.4
1991	252.7	16,363	37.5	27.3	64.8
1992	255.5	16,106	37.7	25.3	63.0
1993	258.2	20,334	40.6	38.2	78.8
1994	260.7	19,309	40.1	34.0	74.1
1995	263.0	16,484	37.2	25.5	62.7
1996	265.3	16,474	36.1	26.0	62.1
1997	268.2	17,132	36.7	27.2	63.9
1998	270.6	16,897	34.0	28.5	62.5
1999	272.9	17,378	34.2	29.5	63.7
2000	275.4	17,338	32.9	30.0	62.9

(1) Data include U.S. commercial landings and imports of both edible and nonedible (industrial) fishery products on a round weight basis. "Total supply" is not adjusted for beginning and ending stocks, defense purchases, or exports.

SUMMARY OF 2000 VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR COMMERCIAL MARINE FISHERY PRODUCTS IN THE UNITED STATES (1)

Sector or type of activity	Purchase of fishery inputs	Mark-up of fishery inputs	Total mark-up within sector	Value added as percent of total mark-up	Value added within sector	Value of sales by sector	Value added contribution	Offshore fleet & exported fishery products
	Thousand Dollars	Percentage of Fishery Inputs	Thousand Dollars	Percentage	Thousand Dollars	Thousand Dollars	Percentage of GNP Contribution	Thousand Dollars
Domestic Harvest:								
Edible	-	100.0	\$3,401,112	62.8	\$2,136,264	\$3,401,112	7.7	-
Industrial	-	100.0	\$112,403	59.4	\$66,719	\$112,403	0.2	-
Harvest not landed in U.S.	-	100.0	\$88,770	66.7	\$59,209	\$88,770	0.2	\$88,770
Imports, Unprocessed	\$4,177,564	-	-	-	-	\$4,177,564	-	-
Exports, Unprocessed	-	-	-	-	-	-	-	\$964,900
Primary Wholesale and Processing	\$6,726,179	76.4	\$5,138,583	60.5	\$3,108,620	\$11,864,762	11.2	-
Imports, Processed	\$6,016,967	-	-	-	-	\$6,016,967	-	-
Exports, Processed	-	-	-	-	-	-	-	\$1,996,932
Secondary Wholesale and Processing:								
Edible	\$15,689,467	62.7	\$9,838,880	28.0	\$2,759,170	\$25,528,348	9.9	-
Industrial	\$195,330	62.7	\$122,491	28.0	\$34,351	\$317,821	0.1	-
Retail Trade from Food Service	\$13,454,343	182.4	\$24,541,534	69.8	\$17,120,947	\$37,995,687	61.4	-
Retail Trade from Stores	\$12,074,004	33.4	\$4,035,408	64.2	\$2,592,004	\$16,109,412	9.3	-
TOTAL U.S. VALUE ADDED ACTIVITY:					\$27,877,285		100.0	
CONSUMERS EXPENDITURES (& WHOLESAL PURCHASES OF INDUSTRIAL PRODUCTS) FOR FISHERY PRODUCTS:						\$54,423,120		

(1) Includes industrial products and landings by U.S.-flag vessels at U.S. ports, foreign ports, and transfers to internal water processing vessels.

Note.-- The table reports the contribution of commercial marine fishing to the national economy as measured by margin, value added, and sales. These measures are consistent with the Bureau of the Census definitions.

Margin or mark-up is the difference between the price paid for the product by the consumer or wholesale purchaser and the dockside or wholesale value for an equivalent weight of the product. (It is assumed that fishermen catch their fish without paying purchase price and therefore the entire dockside or exvessel price is considered margin.) Value added is a measure of the factors added to the total worth of a product at each stage of the production process. It is defined as the gross receipts of firms minus the cost of purchased goods and services needed to fabricate the products. Gross National Product (GNP) is equal to the sum of the value added of all economic entities in the economy. Value added within a sector represents that sector's contribution to GNP.

Value added includes wages, salaries, interest, depreciation, rent, taxes and profit. Consumer expenditures are the final retail value of seafood products sold through stores and food service outlets plus secondary wholesale and processing of industrial products.

The Exvessel Price table is an index of changes in the relative dockside value of fish and shellfish sold by fishing vessels. The table indexes the average annual exvessel value (price per pound) received for each species or group to the average price per pound received for the same species or group in the base year 1982.

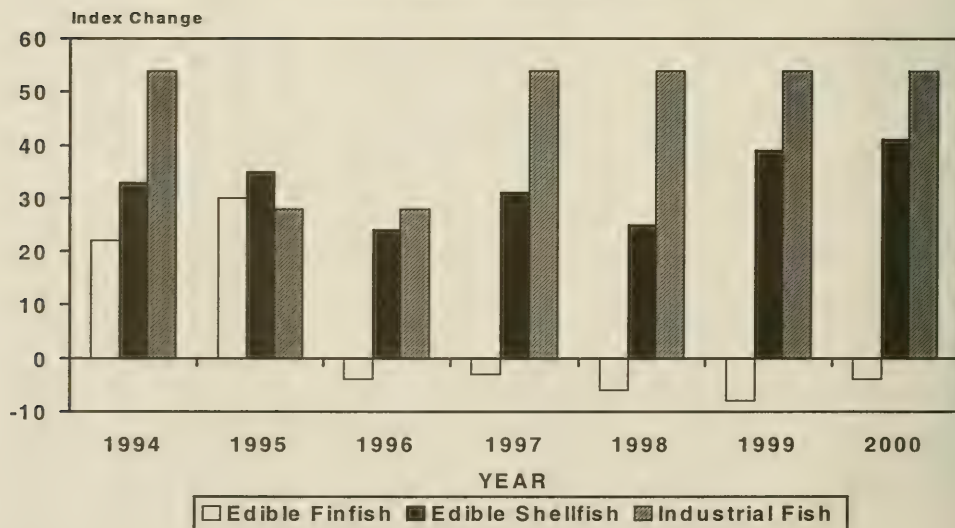
The exvessel price for each year was obtained by dividing total value for each species or group by its total quantity as reported in the U. S. commercial landings tables on pages 8 thru 13. The index for each species or group was obtained by multiplying the current annual price by the total quantity caught in 1982 (the base year). That

number was then divided by the 1982 value to obtain the final index:

$$\frac{(100 \times \text{Current price} \times 1982 \text{ quantity})}{1982 \text{ Annual value}} = \text{Index}$$

Each index number measures price changes from the 1982 reference period when the index equaled 100. A species of fish that sold for \$0.75 a pound in 1986 and a \$1.00 a pound in 1982 would have an index of 75 in 1986. In 2000, if the price of the same species increased to \$1.07, the index in 2000 would be 107.

Percent Changes in the Exvessel Price Index, 1994-2000
(Change Relative to Base Year = 1982)



INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY YEARS, 1994-2000 (1982=100)

Species	1994	1995	1996	1997	1998	1999	2000
Groundfish, et al:							
Cod	92	77	76	84	68	68	106
Haddock	287	277	239	218	253	264	264
Pollock:							
Atlantic	365	412	311	255	294	372	352
Alaska	212	161	160	170	124	124	109
Flounders	80	96	91	63	67	74	72
Total groundfish, et al.	125	125	115	100	99	106	144
Halibut	171	173	199	195	165	180	225
Sea herring	86	126	137	63	46	57	51
Salmon:							
Chinook	76	76	63	70	64	92	89
Chum	58	66	36	49	39	40	54
Pink	73	67	38	52	61	61	58
Sockeye	101	100	94	103	131	87	86
Coho	76	54	48	70	54	96	54
Total salmon	85	82	69	81	90	81	75
Swordfish	107	104	103	91	70	76	78
Tuna:							
Albacore	125	120	130	124	99	125	134
Bluefin	666	954	229	353	295	736	760
Skipjack	127	83	82	93	79	63	52
Yellowfin	205	283	113	126	100	88	122
Total tuna	181	212	105	118	96	94	109
Total edible finfish	122	130	96	97	94	92	96
Clams:							
Hard	105	113	148	163	174	160	144
Ocean Quahog	129	136	142	145	148	154	166
Soft	248	250	205	236	238	255	237
Surf	118	118	115	116	103	99	106
Total clams	133	138	147	159	161	157	150
Crabs:							
Blue	260	284	266	271	271	303	303
Dungeness	145	176	143	210	192	213	222
King	146	104	100	94	80	175	137
Snow	144	237	130	76	54	85	177
Total crabs	166	182	144	135	121	178	188
American lobster	128	141	147	138	138	160	157
Oysters	175	179	214	199	188	191	156
Scallops:							
Bay	49	55	69	111	90	133	134
Calico	94	124	-	217	(1)	93	(1)
Sea	138	138	153	179	166	166	137
Total scallops	126	131	129	178	141	155	121
Shrimp:							
Gulf and South Atlantic	110	99	88	106	94	97	111
Other	142	179	148	134	331	152	144
Total shrimp	111	103	91	107	105	100	112
Total edible shellfish	138	135	124	133	125	139	141
Total edible fish and shellfish	131	133	111	117	111	118	121
Industrial fish, Menhaden	154	128	128	154	154	154	154
All fish and shellfish	132	132	112	119	113	119	122

(1) Confidential data.

Employment, Craft, and Plants

ESTIMATED NUMBER OF COMMERCIAL FISHING VESSELS (1) AND FISHING BOATS (2) BY REGION AND STATE, 1998 - 1999

Area and State	1998			1999		
	Vessels	Boats	Total	Vessels	Boats	Total
Northeast:						
Connecticut	245	318	563	232	281	513
Delaware	175	NA	175	178	NA	178
Maine	1,642	5,799	7,441	1,653	5,821	7,474
Maryland (3)	33	NA	33	34	NA	34
Massachusetts	715	4,500	5,215	700	4,520	5,220
New Hampshire	115	461	576	121	468	589
New Jersey	387	1,147	1,534	421	NA	421
New York (4)	689	2,931	3,620	678	2,825	3,503
Rhode Island	312	2,401	2,713	330	2,239	2,569
Virginia (3)	122	NA	122	241	NA	241
South Atlantic and Gulf:						
North Carolina	891	NA	891	667	NA	667
South Carolina	569	NA	569	577	NA	577
Georgia	350	NA	350	350	NA	350
Florida	2,384	6,157	8,541	2,214	5,602	7,816
Alabama	398	1,338	1,736	454	1,231	1,685
Mississippi	454	688	1,142	502	707	1,209
Louisiana	2,535	11,637	14,172	2,450	11,414	13,864
Texas	NA	NA	NA	NA	NA	NA
West Coast:						
Alaska	6,384	9,445	15,829	6,321	9,424	15,745
Washington	904	428	1,332	783	343	1,126
Oregon	668	296	964	643	308	951
California	1,392	1,191	2,583	1,438	1,142	2,580
Hawaii	2,855	NA	2,855	NA	NA	2,901
Great Lakes (5)						
Illinois	5	NA	5	5	NA	5
Indiana	NA	NA	NA	NA	NA	NA
Michigan	61	74	135	NA	NA	NA
Minnesota	1	22	23	1	24	25
New York	2	NA	2	1	NA	1
Ohio	40	19	59	34	21	55
Pennsylvania	2	1	3	2	1	3
Wisconsin	89	16	105	68	18	86

(1) Vessels are documented craft greater than 5 net registered tons.

(2) Boats are craft less than 5 net registered ton.

(3) Only Federally collected data are available. Inshore data are not available.

(4) Excludes vessels and boats in the Great Lakes.

(5) Commercial fishing fleet size of the Great Lakes states represent only the number of licenses issued by the State; therefore, may not be an accurate total. Tribal data are not included in this table.

NA -- Data not available or provided separately.

Employment, Craft, and Plants

PROCESSORS AND WHOLESALERS: PLANTS, AND EMPLOYMENT, 1999

Area and State	Processing		Wholesale (1)		Total	
	Plants	Employment	Plants	Employment	Plants	Employment
Number						
New England:						
Maine	50	1,749	228	1,601	278	3,350
New Hampshire	8	362	28	169	36	531
Massachusetts	63	2,299	306	2,689	369	4,988
Rhode Island	17	463	54	380	71	843
Connecticut	4	70	38	308	42	378
Total	142	4,943	654	5,147	796	10,090
Mid-Atlantic:						
New York	7	179	348	2,569	355	2,748
New Jersey	16	1,168	NA	NA	16	1,168
Pennsylvania	6	1,954	65	842	71	2,796
Delaware	(2)	(2)	(2)	(2)	(2)	(2)
District of Columbia	-	-	6	94	6	94
Maryland	26	943	80	672	106	1,615
Virginia	37	1,639	79	548	116	2,187
Total	92	5,883	578	4,725	670	10,608
South Atlantic:						
North Carolina	41	1,276	96	851	137	2,127
South Carolina	4	77	31	188	35	265
Georgia	6	1,096	58	598	64	1,694
Florida	98	3,285	364	3,180	462	6,465
Total	149	5,734	549	4,817	698	10,551
Gulf:						
Alabama	75	1,361	53	783	128	2,144
Mississippi	36	2,712	36	244	72	2,956
Louisiana	122	2,673	161	1,189	283	3,862
Texas	23	1,309	116	1,294	139	2,603
Total	256	8,055	366	3,510	622	11,565
Pacific:						
Alaska	190	8,900	189	371	379	9,271
Washington	84	3,601	214	1,627	298	5,228
Oregon	31	1,081	24	386	55	1,467
California	122	6,283	410	4,931	532	11,214
Total	427	19,865	837	7,315	1,264	27,180
Inland States, Total	21	1,453	407	3,731	428	5,184
Other Areas or States:						
(3), Total	26	9,067	71	750	97	9,817
Grand total	1,113	55,000	3,462	29,995	4,575	84,995

(1) Data are based on Standard Industrial Classification Code 5146, as reported by the Bureau of Labor Statistics.

(2) Included with Inland States for confidentiality reasons.

(3) Includes American Samoa, Hawaii, and Puerto Rico. NA -- Data not available

Fishery Products Inspection

FISHERY PRODUCTS AND ESTABLISHMENTS INSPECTED IN CALENDAR YEAR, 2000

Region	Edible fishery products						
	Establishment (1)		Amount inspected				
	SIFE (2)	In- plant (3)	Grade A (4)	PUFI (4)	No mark (5)	Lot (6)	Total
	-Average number-		----- Thousand pounds -----				
Northeast	0	90	26,348	140,189	59,228	79,163	304,926
Southeast	0	104	13,398	81,200	57,905	102,461	254,964
West	1	64	20,017	27,307	281	217,397	265,002
Total	1	257	59,761	248,696	117,414	399,021	(7) 824,892

(1) These establishments are inspected under contract and certified as meeting U.S. Department of Commerce (USDC) regulations on construction and maintenance of facilities, equipment processing techniques, and employment practices.

(2) Fish processing establishments approved for sanitation under the Sanitary Inspected Fish Establishment Service (SIFE). Products are not processed under inspection.

(3) Sanitarily inspected fish establishments processing fishery products under USDC inspection. As of December 2000, 78 of these were in the Hazard Analysis Critical Control Point (HACCP) Program.

(4) Products processed under USDC inspection in inspected establishments and labeled with USDC inspection mark as "Processed Under Federal Inspection" (PUFI) and/or "U.S. Grade A."

(5) Products processed under inspection in inspected establishments but bearing no USDC inspection mark.

(6) Lot inspected and marked products checked for quality and condition at the time of examination and located in processing plants, warehouses, cold storage facilities, or terminal markets anywhere in the United States.

(7) Based on 1999 per capita consumption data, approximately 17.3 percent of seafood consumed in the U.S. is certified under the auspices of the Seafood Inspection Program.

Note:—Table may not add due to rounding.

Source:—NMFS, Seafood Inspection Program, F/SI.

The Magnuson-Stevens Fishery Conservation and Management Act

The Magnuson-Stevens Fishery Conservation and Management Act, Public Law 94-265 as amended (Magnuson-Stevens Act), provides for the conservation and management of fishery resources within the U.S. Exclusive Economic Zone (EEZ). It also provides for fishery management authority over continental shelf resources and anadromous species beyond the EEZ, except when they are found within a foreign nation's territorial sea or fishery conservation zone (or equivalent), to the extent that such sea or zone is recognized by the United States.

The EEZ extends from the seaward boundary of each of the coastal States (generally 3 nautical miles from shore for all but two States) to 200 nautical miles from shore. The seaward boundaries of Texas, Puerto Rico, and the Gulf coast of Florida are 3 marine leagues (9 nautical miles). The EEZ encompasses approximately 3.36 million square nautical miles.

GOVERNING INTERNATIONAL FISHERY AGREEMENT

Under the Magnuson-Stevens Act, the Secretary of State, in cooperation with the Secretary of Commerce, negotiates Governing International Fishery Agreements (GIFAs) with foreign nations requesting to fish within the EEZ. After a GIFA is signed, it is transmitted by the President to the Congress for ratification.

FOREIGN FISHING PERMITS

Title II of the Magnuson-Stevens Act governs foreign fishing in the EEZ. The process applied to foreign fishing has been described in prior issues of this publication. As U.S. fishing capacity grew, foreign participation in directed fisheries, as well as in foreign joint ventures in which U.S. vessels delivered U.S. harvested fish to permitted foreign vessels in the EEZ diminished until, in 1991, foreign vessels no longer were permitted to conduct directed fishing in the EEZ. This marked the achievement of one of the objectives of the Magnuson-Stevens Act, that is, the development of the U.S. fishing industry to take what were in 1976 underutilized species, and the displacement of directed foreign fishing effort in the EEZ. Although small quantities of Atlantic herring and Atlantic mackerel were available for joint ventures in 2000, no foreign permits were issued.

FMPs and PMPs

Under the Magnuson-Stevens Act, eight Regional Fishery Management Councils are charged with preparing Fishery Management Plans (FMPs) for the fisheries needing management within their areas of authority. After the Councils prepare FMPs that cover domestic and foreign fishing efforts, the FMPs are submitted to the Secretary of Commerce (Secretary) for approval and implementation. The Department, through NMFS agents and the U.S. Coast Guard, is responsible for enforcing the law and regulations.

The Secretary is empowered to prepare FMPs in the Atlantic and Gulf of Mexico for highly migratory species. The Secretary is also empowered to produce an FMP or an FMP amendment for any fishery for which a Council has not duly produced an FMP.

The Atlantic swordfish, Atlantic sharks, and Atlantic billfish fisheries are currently being managed under Secretarial FMPs under the Magnuson-Stevens Act. The Western Atlantic bluefin tuna fishery is managed under the Magnuson-Stevens Act and the Atlantic Tunas Convention Act.

FISHERY MANAGEMENT PLANS (FMPs)

Under section 304 of the Magnuson-Stevens Act, all Council-prepared FMPs must be reviewed for approval by the Secretary. After FMPs have been approved under section 304 of the Magnuson-Stevens Act, they are implemented by Federal regulations, under section 305 of the Act. As of December 31, 2000, there were 40 FMPs in place. Of these, two are Secretarial FMPs for Atlantic highly migratory species. The 38 FMPs the Councils prepared are listed below. The FMPs are amended by the Councils and the amendments are submitted for approval under the same Secretarial review process as new FMPs. Nearly all the FMPs listed have been amended since initial implementation, with some having over 50 amendments.

Northeast Multispecies

Atlantic Herring

Monkfish

The Magnuson-Stevens Fishery Conservation and Management Act

Atlantic Bluefish	South Atlantic Snapper/Grouper
Atlantic Coast Red Drum	South Atlantic Shrimp
Atlantic Mackerel, Squid, and Butterfish	Coastal Pelagic Species
Atlantic Salmon	King and Tanner Crab
Atlantic Sea Scallops	Commercial and Recreational Salmon
Atlantic Surf Clams and Ocean Quahogs	High Seas Salmon
Summer Flounder, Scup, and Black Sea Bass	Pacific Coast Groundfish
Spiny Dogfish	Gulf of Alaska Groundfish
Gulf and South Atlantic Spiny Lobster	Bering Sea and Aleutian Islands Groundfish
Caribbean Reef Fish	Alaska Scallops
Gulf of Mexico Reef Fish	Western Pacific Crustaceans
Gulf of Mexico Corals	Western Pacific Precious Corals
South Atlantic Corals	Western Pacific Bottomfish and Seamount
South Atlantic Golden Crab	Groundfish
Caribbean Coral Reef Resources	Western Pacific Pelagics
Gulf of Mexico Shrimp	
Gulf of Mexico Stone Crab	
Gulf of Mexico Red Drum	
Coastal Migratory Pelagics	
Caribbean Queen Conch	
Caribbean Spiny Lobster	

In 2000, NMFS published approximately 1,000 documents in the Federal Register that affected domestic fishing issues and either proposed or implemented fishery management actions (i.e., FMP and amendments). The documents published included hearings, meetings, corrections, other public notice, and proposed and final rule documents.

The Magnuson-Stevens Fishery Conservation and Management Act

REGIONAL FISHERY MANAGEMENT COUNCILS

<u>Council</u>	<u>Constituent States</u>	<u>Telephone Number</u>	<u>Executive Directors and Addresses</u>
NEW ENGLAND	(Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut)	978-465-0492 FAX: 465-3116	Paul J. Howard 50 Water St. The Tannery -- Mill 2 Newburyport, MA 01950
MID-ATLANTIC	(New York, New Jersey, Delaware, Pennsylvania, Maryland, Virginia, and North Carolina)	302-674-2331 FAX: 674-5399	Daniel T. Furlong Federal Bldg., Rm. 2115 300 South New St. Dover, DE 19904
SOUTH ATLANTIC	(North Carolina, South Carolina, Georgia and Florida)	843-571-4366 FAX: 769-4520	Robert K. Mahood 1 Southpark Circle Suite 306 Charleston, SC 29407
GULF OF MEXICO	(Texas, Louisiana, Mississippi, Alabama, and Florida)	813-228-2815 FAX: 225-7015	Wayne E. Swingle 3018 U.S. Highway 301, North Suite 1000 Tampa, FL 33619
CARIBBEAN	(U.S. Virgin Islands and Commonwealth of Puerto Rico)	787-766-5926 FAX: 766-6239	Miquel A. Rolon 268 Ave. Munoz Rivera Suite 1108 San Juan, PR 00918
PACIFIC	(California, Washington, Oregon, and Idaho)	503-326-6352 FAX: 326-6831	Donald O. McIsaac 2130 S.W. 5th Ave. Suite 224 Portland, OR 97201
NORTH PACIFIC	(Alaska, Washington, and Oregon)	907-271-2809 FAX: 271-2817	Clarence G. Pautzke 605 W. 4th Ave. Room 306 Anchorage, AK 99501
WESTERN PACIFIC	(Hawaii, American Samoa, Guam, and Commonwealth of the Northern Mariana Islands)	808-522-8220 FAX: 522-8226	Kitty M. Simonds 1164 Bishop St. Suite 1400 Honolulu, HI 96813

The Magnuson-Stevens Fishery Conservation and Management Act

OPTIMUM YIELD (OY) AND OTHER SPECIFICATIONS, INCLUDING AMOUNTS AVAILABLE FOR JOINT VENTURE PROCESSING: NORTH ATLANTIC, BY SPECIES, 2000 (1)

Item	Loligo squid	Illex squid	Atlantic mackerel	Butterfish	Atlantic herring
	----- Metric tons, round weight -----				
Maximum OY	(2) 26,000	(2) 24,000	(3)	(2) 6,000	(4) 224,000
ABC	13,000	24,000	347,000	7,200	300,000
Initial OY	13,000	24,000	(5) 75,000	5,900	224,000
DAH	13,000	24,000	(6) 75,000	5,900	224,000
DAP	13,000	24,000	50,000	5,900	180,000
JVP	0	0	10,000	0	20,000
Other	NA	NA	NA	NA	(7) 24,000
TALFF	0	0	0	0	0

(1) OY=Optimum Yield; ABC=Allowable Biological Catch; DAH=Domestic Annual Harvest; DAP=Domestic Annual Processing; JVP=Joint Venture Processing; and TALFF=Total Allowable Level of Foreign Fishing.

(2) Maximum OY based on the Fishery Management Plan for Atlantic mackerel, squid and butterfish.

(3) Not applicable based on the Fishery Management Plan for Atlantic mackerel, squid and butterfish.

(4) Maximum OY based on the Fishery Management Plan for Atlantic Herring.

(5) Initial OY can increase during the year, but the total cannot exceed 347,000 metric tons.

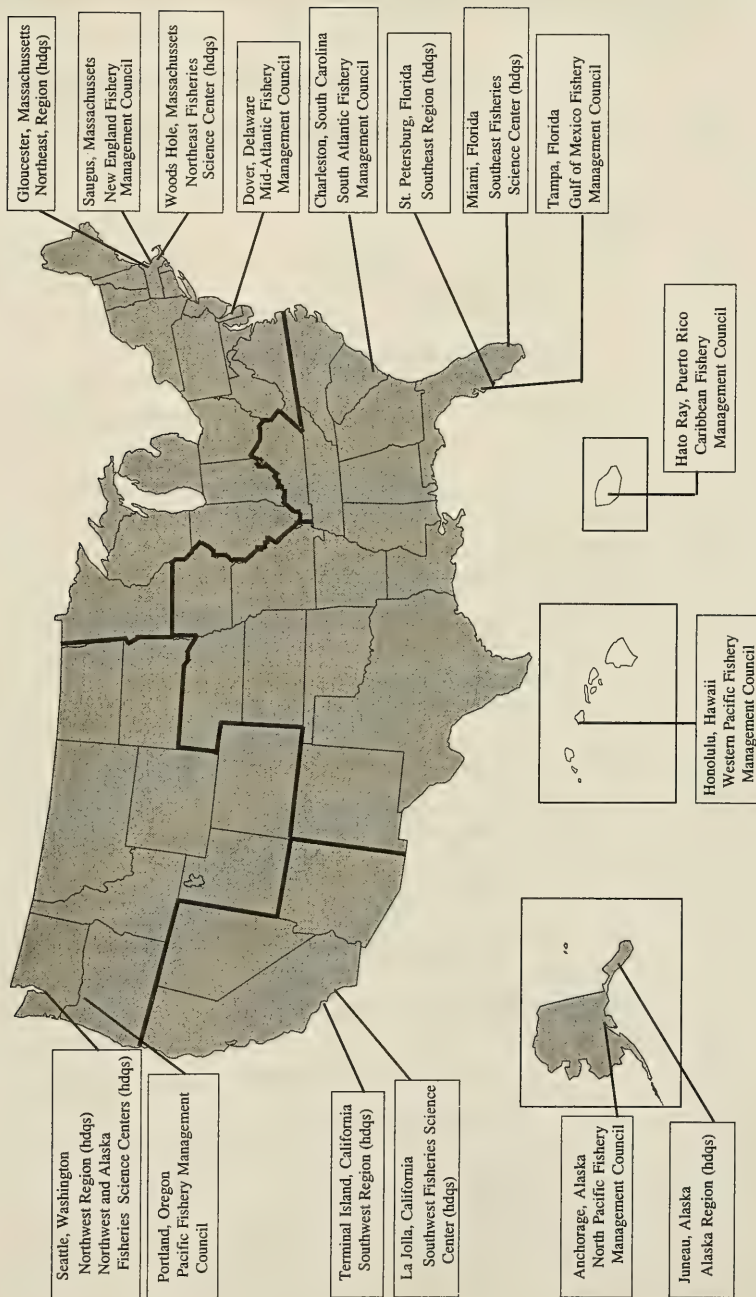
(6) Includes 15,000 metric tons of Atlantic mackerel recreational allocation.

(7) Represents 20,000 metric tons specified for U.S. at-sea processing and 4,000 metric tons specified for transfers to Canadian herring carriers.

NA -- Not available

Source:—NMFS, Office of Sustainable Fisheries, F/SF; and NMFS, Northeast Region, F/NER.

NMFS Regional Offices NMFS Fisheries Science Centers Regional Fishery Management Councils Headquarters Locations



General Administrative Information

UNITED STATES DEPARTMENT OF COMMERCE

14th and Constitution Ave., NW
Washington, DC 20230

**MAIL
ROUTING
CODE**

**TELEPHONE
NUMBER**

--	Secretary of Commerce Donald L. Evans	202-482-2112
A	Under Secretary for Oceans and Atmosphere Scott G. Gudes, Acting	202-482-3436

NATIONAL MARINE FISHERIES SERVICE

1315 East-West Highway
Silver Spring Metro Center #3 (SSMC)
Silver Spring, MD 20910

F	Assistant Administrator for Fisheries -- William T. Hogarth, Acting	301-713-2239
	Deputy Assistant Administrator for Regulatory Programs -- Rebecca J. Lent	301-713-2239
	Deputy Assistant Administrator for Operations -- John Oliver	301-713-2239
	Chief Information Officer -- Larry Tyminski	301-713-2372
	Equal Employment Opportunity -- Natalie Huff	301-713-1456
Fx1	Staff Office for Industry and Trade -- Linda Chaves	301-713-2379
Fx2	Staff Office for Intergovernmental and Recreational Fisheries -- Richard Schaefer	301-427-2401
F/EN	Office of Law Enforcement -- Dale Jones	301-427-2300
F/EN1	Enforcement Operations Division	301-427-2300
F/SI	Seafood Inspection Program -- Samuel W. McKeen	301-713-2351
F/HC	Office of Habitat Conservation -- Rolland A. Schmitten	301-713-2325
F/HCx1	Chesapeake Bay Program Office	410-267-5660
F/HC1	Watershed Division	301-713-2325
F/HC2	Habitat Protection Division	301-713-2325
F/HC3	Habitat Restoration Division	301-713-0174

General Administrative Information

NATIONAL MARINE FISHERIES SERVICE

Silver Spring, Md. 20910

<u>MAIL ROUTING CODE</u>		<u>TELEPHONE NUMBER</u>
F/OM	Office of Operations, Management & Information -- Alan Risenhoover, Acting	301-713-2259
F/OM 1	Administrative & Budget Processes Division	301-713-2245
F/OM 2	Planning and Development Division	301-713-2252
F/OM 3	Information Management Division	301-713-2372
F/OM 4	Budget, Development and Justification Division	301-713-2245
F/OM 5	Management and Administration Division	301-713-2259
F/PR	Office of Protected Resources -- Donald Knowles	301-713-2332
F/PR1	Permits Division	301-713-2289
F/PR2	Marine Mammal Conservation Division	301-713-2322
F/PR3	Endangered Species Division	301-713-1401
F/SF	Office of Sustainable Fisheries -- Bruce Morehead, Acting	301-713-2334
F/SF1	Highly Migratory Species Division	301-713-2347
F/SF2	Financial Services Division	301-713-2390
F/SF3	Domestic Fisheries Division	301-713-2341
F/SF4	International Fisheries Division	301-713-2276
F/SF5	Regulatory Services Division	301-713-2337
F/SF6	National Seafood Laboratory	301-713-2334
F/ST	Office of Science and Technology -- William Fox, Jr.	301-713-2367
F/ST1	Fisheries Statistics & Economics Division	301-713-2328
F/ST2	Research Analysis and Coordination Division	301-713-2363
F/ST21	Scientific Publications Unit	206-526-6107
F/ST3	International Science Coordination and Analysis Division	301-713-2288
LA11	Office of Congressional Affairs - Fisheries -- Michelle Fox	301-713-2263
PAF	Office of Public Affairs - Fisheries -- Gordon Helm	301-713-2370
GCF	Office of General Counsel - Fisheries -- Karl Gleaves (Acting)	301-713-2231

General Administrative Information

NATIONAL MARINE FISHERIES SERVICE REGIONAL FACILITIES

<u>MAIL ROUTING CODE</u>	<u>OFFICE</u>	<u>TELEPHONE and FAX NUMBER</u>	<u>LOCATION</u>
F/NER	Northeast Region One Blackburn Drive Gloucester, MA 01930	978-281-9300 Fax-281-9371	Gloucester, MA
F/NEC3	Northeast Fisheries Science Center 166 Water St. - Rm. 312 Woods Hole, MA 02543	508-495-2233 Fax-548-2258	Woods Hole, MA
	Woods Hole Laboratory 166 Water St. Woods Hole, MA 02543	508-495-2000 Fax-495-2258	Woods Hole, MA
	Narragansett Laboratory 28 Tarwell Drive Narragansett, RI 02882	401-782-3200 Fax-782-3201	Narragansett, RI
	Milford Laboratory 212 Riggers Ave. Milford, CT 06460	203-579-7000 FAX-579-7070	Milford, CT
	Sandy Hook Laboratory Building 74, McGruder Highlands, NJ 07732	732-872-3000 FAX-872-3088	Highlands, NJ
F/NEC3	Natl. Systematics Laboratory, MRC15 10th & Constitution Ave., NW Washington, DC 20560	202-357-2550 FAX-357-1896	Washington, DC
F/SER	Southeast Region 9721 Executive Center Drive, N. St. Petersburg, FL 33702	727-570-5301 FAX-570-5300	St. Petersburg, FL
F/SEC	Southeast Fisheries Science Center 75 Virginia Beach Dr. Miami, FL 33149	305-361-4284 FAX-361-4219	Miami, FL
F/SEC4	Miami Laboratory 75 Virginia Beach Dr. Miami, FL 33149	305-361-4225 FAX-361-4499	Miami, FL
F/SEC5	Mississippi Laboratories 3209 Frederick St., P.O. Drawer 1207 Pascagoula, MS 39567	228-762-4591 FAX-769-9200	Pascagoula, MS
F/SEC6	Panama City Laboratory 3500 Delwood Beach Rd. Panama City, FL 32408	850-234-6541 FAX-235-3559	Panama City, FL
F/SEC7	Galveston Laboratory 4700 Avenue U Galveston, TX 77551	409-766-3500 FAX-766-3508	Galveston, TX

(Continued)

General Administrative Information —————

NATIONAL MARINE FISHERIES SERVICE REGIONAL FACILITIES

<u>MAIL ROUTING CODE</u>	<u>OFFICE</u>	<u>TELEPHONE and FAX NUMBER</u>	<u>LOCATION</u>
F/SEC9	Beaufort Laboratory 101 Pivers Island Rd Beaufort, NC 28516	252-728-3595 FAX-728-8784	Beaufort, NC
F/NWR	Northwest Region 7600 Sand Point Way, N.E., Bldg. 1 Seattle, WA 98115	206-526-6150 FAX-526-6426	Seattle, WA
F/NWC	Northwest Fisheries Science Center West Bldg. - Rm. 363 2725 Montlake Boulevard, East Seattle, WA 98112	206-860-3200 FAX-860-3217	Seattle, WA
F/SW	Southwest Region 501 West Ocean Blvd., Suite 4200 Long Beach, CA 90802	562-980-4000 FAX-980-4018	Long Beach, CA
F/SWC	Southwest Fisheries Science Center 8604 La Jolla Shores Dr. P.O. Box 271 La Jolla, CA 92038	858-546-7000 FAX-546-5655	La Jolla, CA
F/SWC2	Honolulu Laboratory 2570 Dole Street, Rm. 106 Honolulu, HI 96822	808-983-5300 FAX-983-2902	Honolulu, HI
	Pacific Islands Area Office 1601 Kapiolani Blvd., Rm. 1110 Honolulu, HI 96814	808-973-2937 FAX-973-2941	Honolulu, HI
F/SWC3	Santa Cruz / Tiburon Laboratory 110 Shaffer Rd. Santa Cruz, CA 95060	415-435-3149 FAX-435-3675	Santa Cruz, CA
F/SWC4	Pacific Fisheries Environmental Group 1352 Lighthouse Ave. Pacific Grove, CA 93950	408-648-8515 FAX-648-8440	Pacific Grove, CA
F/AKR	Alaska Region 709 West 9th Street, Room 453 P.O. Box 21668 Juneau, AK 99802	907-586-7221 FAX-586-7249	Juneau, AK
F/AKC	Alaska Fisheries Science Center, 7600 Sand Point Way, N.E. P.O. Box C15700 - Bldg. #4 - Rm. 2149 Seattle, WA 98115	206-526-4000 FAX-526-4004	Seattle, WA
	Kodiak Laboratory 301 Research Court Kodiak, AK 99615	907-481-1700 FAX-481-1701	Kodiak, AK
F/AKC4	Auke Bay Laboratory 11305 Glacier Highway Auke Bay, AK 99801	907-789-6000 FAX-789-6094	Auke Bay, AK

General Administrative Information

NATIONAL MARINE FISHERIES SERVICE NATIONAL FISHERY STATISTICS OFFICES

<u>CITY</u>	<u>TELEPHONE NUMBER</u>	<u>NAME AND ADDRESS</u>
<u>NEW ENGLAND:</u>		
(1) Portland	207-780-3322 FAX:780-3340	Scott McNamara / Jessica Holton / Stephen Link, Marine Trade Center, Suite 212, Two Portland Fish Pier, Portland, ME 04101
Boston	617-223-8018 FAX:223-8526	Jack French, Boston Market News, 408 Atlantic Ave., Rm. 141, Boston, MA 02210
(1) Gloucester	978-281-9304 FAX:281-9161	Gregory R. Power, Fishery Inf. Section, One Blackburn Dr., Blackburn Dr., Gloucester, MA 01930
Gloucester	978-281-9363 / 9286 FAX:281-9372	Don Mason / William Heiskel, 11-15 Parker St., Fish Pier, Gloucester, MA 01930
New Bedford	508-999-2452 FAX:990-2506	Dennis E. Main / Sarah Babson-Pike, U.S. Custom House, 37 No. Second St., New Bedford, MA 02740
Chatham	508-945-5961 FAX:945-3793	Lorraine Spence, 29C Stage Harbor Road, Chatham, MA 02633
Woods Hole	508-495-2309 FAX:495-2258	John Mahoney, NMFS, Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543
Point Judith	401-783-7797 FAX:782-2113	Walter Anoushian, 83 State St., 2nd Floor, P.O. Box 547, Narragansett, RI 02882
<u>MIDDLE ATLANTIC AND CHESAPEAKE:</u>		
New York	212-620-3405 FAX:620-3577	Leo Gaudin / R. Santangelo, New York Market News, 201 Varick St. Rm. 701, New York, NY 10014
East Hampton	631-324-3569 FAX:324-3314	Erik Braun, 62 Newtown Lane, Suite 203, East Hampton, NY 11937
Patchogue	631-475-6988 FAX:289-8361	David McKernan, Social Security Bldg., 50 Maple Ave., P.O.Box 606 Patchogue, L.I., NY 11772
(1) Toms River	732-349-3533 FAX:349-4319	Eugene Steady / Nicole Wesley, 26 Main St., P.O. Box 143, Toms River, NJ 08754
Cape May	609-884-2113 FAX:884-4908	Walt Makowski, 1382 Lafayette St., P.O. Box 624, Cape May, NJ 08204
Ocean City	410-213-2761 FAX:213-7029	Ingo Fleming, 12904 Kelly Bridge Lane, P.O. Box 474, Ocean City, MD 21842
Hampton	757-723-3369 FAX:728-3947	David Ulmer / Steve Ellis / George Mattingly, 1026 Settlers Landings Suite F, P.O. Box 436, Hampton, VA 23669
Beaufort	252-728-8788 FAX:728-8772	David Gloeckner, Beaufort Laboratory, 101 Pivers Island Rd., Beaufort, NC 28516
<u>SOUTH ATLANTIC AND GULF:</u>		
(1) Beaufort	252-728-8721 FAX:728-8772	Linda Hardy, Beaufort Laboratory, 101 Piver Island Rd., Beaufort, NC 28516
New Smyrna Beach	904-427-6562 FAX: SAME	Claudia Dennis, Coast Guard Station/Ponce, P.O. Box 2025, New Smyrna Beach, FL 32170
Tequesta	561-575-4461 FAX:361-4565	H.Charles Schaefer / Michelle Gamby, 19100 S.E. Fedl. Highway, Tequesta, FL 33469
(1) Miami	305-361-4468 FAX:361-4460	Guy S. Davenport / Pam Brown-Eyo, 75 Virginia Beach Dr., Miami, FL 33149

(Continued)

General Administrative Information

NATIONAL MARINE FISHERIES SERVICE NATIONAL FISHERY STATISTICS OFFICES

<u>CITY</u>	<u>TELEPHONE NUMBER</u>	<u>NAME AND ADDRESS</u>
<u>SOUTH ATLANTIC AND GULF:</u>		
Key West	305-294-1921 FAX: SAME	Edward J. Little, Jr., Federal Bldg. Rm. 208, 301 Simington St. Key West, FL 33040
Fort Myers	941-334-4364 FAX: SAME	Tom Herbert, 2000 Main St., Suite 409 Fort Myers, FL 33901
St. Petersburg	727-570-5393 FAX: 570-5300	Renee Roman / Greg Fairclough, 9721 Executive Center Dr., St. Petersburg, FL 33702
Panama City	850-234-6541 FAX: 235-3558	Deborah Fable / June Weeks, 3500 Delwood Beach Rd., Panama City, FL 32407
Mobile	334-441-6193 FAX: SAME	Ted Flowers, U.S.Coast Guard - ATC, P.O. Box 97, Mobile, AL 36608
Pascagoula	228-762-7402 FAX: 769-9200	Rene Labadens / Charles Armstrong, 3209 Frederic St., P.O. Box Drawer 1207, Pascagoula, MS 39567
Chalmette	504-277-0365 / 0294 FAX: 271-9150 / 0343	Maggie Bourgeois / Jay Boulet, 2626 Charles Dr., Suite 208, Chalmette, LA 70043
Golden Meadow	504-632-4324 FAX: SAME	Gary J. Rousse, 115 Piciola Pkwy., (Galliano, LA), P.O.Box 623, Golden Meadow, LA 70357
Houma	504-872-3321 FAX: SAME 504-872-1403 FAX: SAME	Kathleen Hebert, 425 Lafayette St., Rm. 128, Houma, LA 70360 Billy Ray Tucker, 1340 W. Tunnel Blvd., Suite 222, Houma, LA 70360
Marrero	504-328-3225 FAX: SAME	Jan Simpson, 5201 Westbank Expressway, Suite 312, Marrero, LA 70072
New Iberia/ Cameron Port	318-365-8689 / 3230 318-365-1558	Linda F. Guidry / Beth B. Bourgeois, 705-A West Admiral Doyle Dr. New Iberia, LA 70560
New Orleans	504-589-6151 504-589-6149	Debbie Batiste, 423 Canal St., Rm. 213, New Orleans, LA 70130
Aransas Pass	361-758-0436 361-758-1043	Roy Spears, 132 Cleveland Blvd., P.O. Box 1815, Aransas Pass, TX 78336
Brownsville/ Port Isabel	956-548-2516 FAX: SAME	Kit Doncaster / Edie Lopez, Shrimp Turning Basin, HC 70 Box 15, Brownsville, TX 78521
Freeport	979-233-4551 FAX: SAME	Michelle Padgett, Texas Gulf Bank, Suite 213, P.O.Box 2533, Freeport, TX 77542
Galveston	409-766-3515 FAX: 766-3543	W. Keith Roberts, 4700 Avenue U, Bldg. 302 Galveston, TX 77551
Port Arthur	409-727-2271 FAX: SAME	Linda S. Trahan, Federal Bldg., Rm. 113, 2875 Jimmy Johnson Blvd Port Arthur, TX 77640

SOUTHWEST PACIFIC:

(1) Long Beach, CA	562-980-4033 FAX: 980-4047	Patricia J. Donley, 501 West Ocean Boulevard, Rm. 4200, P.O. Box 32469, Long Beach, CA 90832
--------------------	-------------------------------	---

NORTHWEST PACIFIC:

(1) Seattle	206-526-6119 FAX: 526-4461	John K. Bishop, Bldg. 1, 7600 Sand Point Way, NE, Seattle, WA 98115
-------------	-------------------------------	--

ALASKA :

(1) Juneau	907-586-7323 FAX: 586-7465	David Ham, Federal Building, 4th Floor, 709 West 9th St., P.O. Box 21668, Juneau, AK 99802
------------	-------------------------------	---

(1) Regional or area headquarters for statistics offices.

LIBRARY INFORMATION

The NOAA Library and Information Network Catalog (NOAALINC) represents the automated bibliographic holdings of the NOAA Central Library in Silver Spring, Maryland and 27 other NOAA libraries located around the U.S. Currently, the NOAALINC contains records for more than 240,000 items with 5,000-10,000 added each year.

NOAALINC provides several search methods to locate records of items. Users can search for keywords in titles, subject headings, authors, or series. Users can browse indexes of titles, subject headings, authors, series, or call number. Each bibliographic record shows a brief description of the item with a list of which libraries hold the item. The list of libraries will show the call number, item's specific information, and whether the item is available for circulation.

NOAALINC is available to anyone, without restriction, 24 hours a day, every day of the year. Visitors to the NOAA Central Library can access the catalog thru workstations located throughout the Library. Remote users can access the catalog thru a link from the NOAA Central Library's homepage at <http://www.lib.noaa.gov/>.

NOAA personnel may contact their nearest NOAA Library or the NOAA Central Library and arrange to borrow materials. Members of the general public should contact their local library to arrange for an interlibrary loan. Restrictions apply on circulation of certain materials.

For further information contact the NOAA Central Library, 1315 East-West Highway, 2nd Floor, Silver Spring, MD 20910-3282. Telephone: 301-713-2600 (Ext. 124) or E-mail: reference@nodc.noaa.gov.

PUBLICATIONS AVAILABLE FROM U.S. GOVERNMENT PRINTING OFFICE

STATISTICAL REPORTS

003-020-00000-0 Fisheries of the United States, 2000...N/A

003-020-00170-0 Fisheries of the United States, 1999...\$18.00

003-020-00169-6 Fisheries of the United States, 1997...\$18.00

003-009-00650-3 United States Industrial Outlook 1995: Business Forecasts for 350 Industries...\$24.00

003-009-00650-3 U.S. Global Outlook (Name change) 1995: Business Forecasts for 350 Industries ...\$24.00

S/N 703-023-00000-2 (FB) 2D Fishery Bulletin (Quarterly) Publishes Original Research Papers, etc. . . \$54.00 a year . . . \$34.00 each

MISCELLANEOUS REPORTS

003-020-00171-8 Our Living Oceans, Report on the Status of U.S. Living Marine Resources, 1999...\$41.00

*For information or to purchase publications listed above
(Advance Payment Required), call or write:*

Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20202
PHONE: 202-512-1800
FAX: 202-512-2250

Internet Orders: https://orders.access.gpo.gov/su_docs/sale/prf/prf.html

PUBLICATIONS AVAILABLE FROM NATIONAL MARINE FISHERIES SERVICE AND NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)

SCIENTIFIC PUBLICATIONS:

Information on formal scientific publications by NMFS (such as NMFS journals and technical publications) may be obtained from the Scientific Publications Office (F/ST21), 7600 Sand Point Way, N.E., BIN C-15700, Seattle, WA 98115.

Telephone: 206-526-6107

CURRENT FISHERY STATISTICS (CFS) SERIES:

The reports listed below are in the Current Fisheries Statistics (CFS) series. They are statistical bulletins on marine recreational fishing, commercial fishing, and on the manufacture and commerce of fishery products. For further information or to obtain a subscription to these publications, contact the office shown below:

NOAA, National Marine Fisheries Service
Fisheries Statistics and Economics Division (F/ST1)
1315 East-West Highway - Station 12340
Silver Spring, MD 20910
Telephone: 301-713-2328

Homepage: <http://www.st.nmfs.gov/st1/>

The bulletins shown below cover freezings and holdings prior to 1997 and holdings only for 1997, and the U.S. foreign trade in fishery products. This information may be obtained through our homepage listing under Fishery Market News (the address is listed above).

- () FF - Frozen Fishery Products (Annual)
- () FT - Imports and Exports of Fishery Products (Annals 1996 - 2000)

Foreign Trade Information from 1989 through the current month is available through our homepage.

OTHER PUBLICATIONS:

All publications listed below may be obtained from NTIS (address and phone number listed on page 114), the originating office (code follows in parentheses) or the appropriate homepage. Copies are available only as long as supply lasts.

- () Protecting and Restoring Essential Fish Habitat. (F/HQ).

- () Report on Apportionments of Membership on the Regional Fishery Management Council (RFMCs) in 2000. (F/SF).

- () The Saltonstall-Kennedy Grant Program: Fisheries Development and Utilization Research and Development Report to Congress on Status of Fisheries of the United States. National Marine Fisheries Service. October 1998. (SFA homepage) Grants - Annotated Bibliography (F/SF).

- () USDC Approved List of Fish Establishments and Products — Semi-Annual Report. (Documentation Approval and Supply Service, Pascagoula, MS., Phone: 228-762-1892).

Atlantic Striped Bass Studies: 1999 Biennial Report to Congress. National Marine Fisheries Service and U.S. Fish and Wildlife Service, 1999. Silver Spring, MD. 33 p. (Fx2).

Protecting Marine Mammals: Look from a Distance...but Don't Touch, Feed or Harm in the Wild. Prepared by the Texas Sea Grant Program for the Office of Protected Resources, NMFS, 1992. 6 p. (F/PR).

Recovery Plan for U.S. Pacific Population of the East Pacific Green Turtle (*Chelonia mydas*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR).

Recovery Plan for U.S. Pacific Population of the Green Turtle (*Chelonia mydas*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR).

Recovery Plan for U.S. Pacific Population of Hawksbill Turtle (*Eretmochelys imbricata*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR).

Recovery Plan for U.S. Pacific Leatherback Turtle (*Dermochelys coriacea*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD (F/PR).

Recovery Plan for U.S. Pacific Population of the Loggerhead Turtle (*Chelonia caretta*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR).

Recovery Plan for the Olive Ridley Turtle (*Lepidochelys olivacea*). National Marine Fisheries Service and the U.S. Fish and Wildlife Service, 1998. Silver Spring, MD. (F/PR).

Report to Congress on Status of Fisheries of the United States. National Marine Fisheries Service. January, 2000. (SFA homepage).

Recreational Fishery Resources Conservation Plan, Accomplishment Report for FY1998. National Marine Fisheries Service, 1999. 75 p. Silver Spring, MD. (Fx2).

COMMERCIAL FISHERIES:

Fisheries of the United States is a preliminary report with historical comparisons on the Nation's fishing, fish processing, and foreign trade in fishery products. The following reports are available through NTIS.

Year	Accession No.	Year	Accession No.
1966	COM-75-10662	1989	PB-91-129-320
1967	COM-75-10663	1990	PB-92-174523/AS
1968	COM-75-10664	1991	PB-93-204536/AS
1969	COM-75-10665	1992	PB-94-156387
1970	COM-71-50081	1993	PB-95-219192
1971	COM-75-10666		
1972	COM-73-50644		
1973	COM-74-50546		
1974	COM-75-10862		
1975	PB-253966		
1976	PB-268662		
1977	PB-282741		
1978	PB-297083		
1979	PB-80-201593		
1980	PB-81-241648		
1981	PB-82-215542		
1982	PB-83-216473		
1983	PB-84-195148		
1984	PB-86-144953		
1985	PB-87-143145		
1986	PB-88-164132		
1987	PB-88-215173		
1988	PB-89-216485		

Fisheries Statistics of the United States (Statistical Digest) is a final report on the Nation's commercial fisheries showing more detail than Fisheries of the United States.

Year	Accession No.
1939	COM-75-11265
1940	COM-75-11266
1941	COM-75-11267
1942	COM-75-11268
1943	COM-75-11269
1944	COM-75-11270
1945	COM-75-11271
1946	COM-75-11272
1947	COM-75-11273
1948	COM-75-11274
1949	COM-75-11275
1950	COM-75-11056
1951	COM-75-11053
1952	COM-75-11054
1953	COM-75-11055
1954	COM-75-11057
1955	COM-75-11058
1956	COM-75-11059
1957	COM-75-11060
1958	COM-75-11061
1959	COM-75-11062
1960	COM-75-11063
1961	COM-75-11064
1962	COM-75-11065
1963	COM-75-11066
1964	COM-75-11067
1965	COM-75-11068
1966	PB-246429
1967	PB-246430
1968	COM-72-50249
1969	COM-75-10887
1970	COM-75-10643
1971	COM-74-51227
1972	COM-75-11430

Fisheries Statistics of the United States *(continued)*

Year	Accession No.
1973	PB-262058
1974	PB-277796
1975	PB-300625
1976	PB-81-163438
1977	PB-84-192038

HISTORICAL REPORTS:

Historical Catch Statistics is a series of publications reporting catch of certain species in the United States for historical purposes. The following reports are available through NTIS:

Atlantic and Gulf Coast States, 1879 - 1889. Current Fisheries Statistics No. 9010 - Historical Series Nos. 5-9 Revised. Report covers total landings for major species, by state and by region. (NTIS No. PB-93-174266).

Atlantic and Gulf Coast States, 1950 - 1991. Current Fisheries Statistics No. 9210 - Historical Series No. 10-Revised. Report covers landings and value of major species, by Region. (NTIS No. PB-93-174274).

IMPORTS AND EXPORTS OF FISHERY PRODUCTS

Annual Summary:

Year	Accession No.
1982	PB-92-218635
1983	PB-92-218643
1984	PB-92-214972
1985	PB-92-222280
1986	PB-92-228196
1987	PB-92-228055
1988	PB-92-222272
1989	PB-92-222264
1990	PB-92-222256
1991	PB-92-221803
1992	PB-95-219499
1993	PB-95-219481
1994	PB-95-219507

MARINE RECREATIONAL FISHING:

Determination of the Number of Commercial and Non-Commercial Recreational Boats in the United States, Their Use, and Selected Characteristics, COM-74-11186.

Biennial Report to the President of the United States - Federal Agency Implementation of Executive Order 12962 - Recreational Fisheries. National Recreational Fisheries Coordination Council. 12p. 1998. (Fx2).

The NMFS-Specific Plan to Meet the Goals and Objectives of the Recreational Fishery Resources Conservation Plan. National Marine Fisheries Service. 8p. 1997. (Fx2).

Recreational Fishery Resources Conservation Plan. National Marine Fisheries Service. 16p. 1996. (Fx2).

MARINE RECREATIONAL FISHERY STATISTICS SURVEY:

Atlantic and Gulf Coasts:

Year	Accession No.
1979-80	PB-84-199652
1979 (Revised)-1980	PB-89-102552
1981-1982	PB-89-102560
1983-1984	PB-89-102628
1985	PB-89-102669
1986	PB-89-102701
1987-1989	PB-92-174820
1990-1991	(F/ST1)

Pacific Coast:

Year	Accession No.
1981-1982	PB-89-102925/AS
1983-1984	PB-89-102933/AS
1985	PB-89-102941/AS
1986	PB-89-102958/AS
1987-1989	(F/ST1)

PROCESSED FISHERY PRODUCTS:

Annual Summary:

Year	Accession No.
1979	PB-89-215248/AS
1980	PB-89-215255/AS
1981	PB-89-215263/AS
1982	PB-89-215289/AS
1983	PB-89-215271/AS
1984	PB-89-215297/AS
1985	PB-89-215305/AS
1986	PB-89-215313/AS
1987	PB-92-172956
1988	PB-92-204528/AS

STATE LANDINGS:

Maine: 1946-76, PB-271-296; 1977-79, PB-128258.
Massachusetts: 1943-76, PB-275866; 1977-79, PB-81-143182.
Rhode Island: 1954-77; PB-287627; 1978-79, PB-81-157158.
New York: 1954-76, PB-275449; 1977-79, PB-81-134546.
New Jersey: 1952-76, PB-275696; 1977-79, PB-81-159048
Maryland: 1960-76, PB-300636; 1977-79, PB-81-159003.
Virginia: 1960-76, PB-300637; 1977-79, PB-82-151960.
North Carolina: 1955-76, PB-288928; 1977-79, PB-82-151978.
South Carolina: 1957-76, PB-289405; 1977-79, PB-81-163198.
Georgia: 1956-76, PB-289814; 1977-79, PB-81-157166.
Florida: 1950-76, PB-292068.
Alabama: 1950-77, PB-80-121262; 1978, PB-82-168071.
Mississippi: 1951-77, PB-80-121270; 1978, PB-82-169079.
Louisiana: 1957-77, PB-300583; 1978, PB-82-168063.
Texas: 1949-77, PB-300603; 1978-79, PB-82-169004.
Shrimp Landings: 1956-76, PB-80-124696; 1978-79, PB-82-156183.
Gulf Coast Shrimp Data: 1958-76, PB-80-126899; 1978-79, PB-82-170390.

INTERNATIONAL REPORTS:

The Division of International Science and Technology, NMFS, prepares assessments of major fisheries to support priority NMFS programs. These reports may be of interest to the wider fishery community as they include biological, commercial, and technical information of potential use to academicians, industry, and environmentalists.

Swordfish:

In 1997 work was completed on a six-volume study, culminating a two-year research project to compile and analyze information on every key swordfish catching nation in the world. *World Swordfish Fisheries*, is the most comprehensive documentation of this fishery ever produced. Each volume of the study contains information on catch, fishing grounds, fishing fleets, gear and methods, markets, trade, bycatch, research, international relations, and other facets of the fishery. The books are

carefully documented and have extensive statistical appendices, graphics, and photographic images to help explain the fishery and illustrate key trends. Work on the swordfish fisheries of the Atlantic States of Latin America is ongoing with major reports scheduled for release in 2001.

World Swordfish Fisheries: An Analysis of Swordfish Fisheries, Market Trends, and Trade Patterns, Past-Present-Future. Complete six-volume set. (NTIS No. PB-98-123414 / GBA).

Volume I: Executive Overview. Summary of World Fisheries for Swordfish and Overview of Global and Regional Trends. 53 p. (NTIS No. PB-98-123425 / GBA).

Volume II: Africa and the Middle East. Examination of Fisheries and Overview of Regional Trends in Africa and in Select Middle Eastern countries. 235 p. (NTIS No. B-98-123433 / GBA).

Volume III: Asia. Summary of Asian Fisheries and Overview of Regional Trends. Special Coverage of Japan, Korea, and Taiwan. 144 p. (NTIS No. PB-98-123441 / GBA).

Volume IV: Latin America. Summary of Swordfish Fisheries, along the Pacific Coast of South America. Both volumes 843 p. Further individual country reports are planned for 1998.

Part A., Section 1, Segment A. Covers Fisheries of Colombia, Ecuador, and Peru (428 p.) (NTIS No. PB-98-123458 / GBA).

Segment B. Provides in-depth Information about Chile (415 p.) (NTIS No. PB-98-123466 / GBA).

Volume V: North America. Overview of Canadian and U.S. Fisheries for Swordfish. 136 p. (NTIS No. PB-98-123474 / GBA).

Volume VI: Western Europe. Examination of European fisheries with special emphasis on the European Union member states (especially Spain, Italy, Greece and France). Non-EU countries are also considered. 324 p. (NTIS No. PB-98-123482 / GBA).

NORTHEAST REGION:

Status of Fishery Resources off the Northeastern United States for 1998. S. H. Clark, ed. 1998. (NOAA-TM- NMFS-NE-115). 149 p. (F/NEC).

U.S. Atlantic Marine Mammal Stock Assessments — 1998. Waring, G. T., D. L. Palka, P. J. Clapham, S. Swartz, M. C. Rossman, T. V. N. Cole, K. D. Bisack, and L. J. Hansen, 1999. (NOAA-TM-NMFS-NE-116) 182p. (F/NEC).

SOUTHEAST REGION:

Habitat Protection Accomplishments of the National Marine Fisheries Service - Fiscal Year 1996. Habitat Conservation Division, Southeast Regional Office. 1996. 88 p.+Appen. (F/SER).

A Review of the Fishing Gear Utilized within the Southeast Region and their Potential Impact on Essential Fish Habits. Barnette, M. C. 2001 (NOAA-TM-NMFS-SEFSC-449). 62 p. (F/SER).

SOUTHWEST REGION:

Hawaiian Monk Seal in the Northwestern Hawaiian Islands, 1998. Johnos, T. C., and J. D. Baker (eds). 2000 (NOAA-TM-NMFS-SWR-292). 134 p. (F/SWC).

The Kewalo Research Facility—leading the way for more than 40 years. Brill, R. W. (ed.). 1999. (NOAA-TM-NMFS-SWFSC-281). (F/SWC).

Marine Resources to Supplement Management of West Coast Groundfish Resources. Phase 1: A Technical Analysis. Pharrish, R. H., J. Segar, and M. Yoklavich. 2000. Final report to the Pacific Fishery Management Council. June 2000. 63 p. (F/SWC)

Proceedings of the Second International Pacific Swordfish Symposium. DiNardo, G. T. (ed.). 1999. (NOAA-TM-NMFS-SWFSC-263). 246 p. (NTIS No. PB99-166357INZ). (F/SWC).

Stock Assessment of the Pacific Sardine and Management Recommendations for 2001. Executive Summary. Conser, R. J., K. T. Hill, P. R. Berger. 2000. Report submitted to the Pacific Fishery Management Council, October 2000. 9p. (F/SWC).

Study of the Northwestern Hawaiian Islands Lobster Fishery Discards. Maine Aquaculture Center, Orono, Maine. October 2000. (Administrative Report AR-SWR-00-01). 85 p. (F/SWR/PIAO)

Tuna Fisheries, Trade, and Market of Japan. Sonu, Sunee C., 1999. (NOAA-TM-NMFS-SWR-034) 121 p. (F/SWR)

U.S. Pacific Marine Mammal Stock Assessments: 2000. Forney, K. A., M. M. Muto, M. Lowry, J. Baker, G. Cameron, J. Mobley, C. Stinchcomb, and J. V. Carrette. (NOAA-TM-NMFS-SWFSC-300). 283p. (F/SWC)

NORTHWEST REGION:

Status Review of Coastal Cutthroat Trout from Washington, Oregon, and California. Johnson, O. W., M. H. Ruckelshaus, W. S. Grant, F. W. Waknitz, A. M. Garrett, G. J. Bryant, K. Neely, and J. J. Hard. 1999. (NOAA-TM-NMFS-NWFSC-37) 292 p. (NTIS PB99-140469)

Status Review of Chinook Salmon from Washington, Idaho, Oregon, and California. Myers, J. M., R. G. Kope, G. J. Bryant, D. Teel, L. J. Liehrheimer, T. C. Wainwright, W. S. Grant, F. W. Waknitz, K. Neely, S. T. Lindley, and R. S. Waples. 1998. (NOAA-TM-NMFS-NWFSC-35) 443 p. (NTIS PB98-128473).

Status Review of Sockeye Salmon from Washington and Oregon. Gustafson, R. G., T. C. Wainwright, G. A. Winans, F. W. Waknitz, L. T. Parker, and R. S. Waples. 1997. (NOAA-TM-NMFS-NWFSC-33) 282 p. (NTIS PB98-128861).

Status Review of Chum Salmon from Washington, Oregon, and California. Johnson, O. W., W. S. Grant, R. G. Kope, K. Neely, F. W. Waknitz, and R. S. Waples. 1997. (NOAA-TM-NMFS-NWFSC-32) 280 p. (NTIS PB98-128663).

Viable Salmon Populations and the Recovery of Evolutionarily Significant Units. McEhany, P., M. H. Ruckelshaus, M. J. Ford, T. C. Wingwright, and E. P. Bjorktedt. 2000. (NOAA-TM-NMFS-NWFSC-42) 443 p. (NTIS Pending).

ALASKA REGION:

Acoustic and Visual Detection of Large Whales in the Eastern North Pacific Ocean. Moore, S. E., M. E. Dahlheim, K. M. Stafford, C. G. Fox, H. W. Braham, M. A. McDonald, and J. Thomason. 1999. (NOAA-TM-AFSC-107). 27 p. (NTIS No. PB2000-101119).

Aerial and Land-based Surveys of Steller Sea Lions (*Eumetopias jubatus*) in Alaska, June and July 1997 and 1998. Sease, J. L., and T. R. Loughlin. 1999. (NOAA-TM-AFSC-100). 61 p. (NTIS No. PB99-140618).

Aerial and Land-based Surveys of Steller Sea Lions (*Eumetopias jubatus*) in Alaska, June and July 1996. Sease, J. L., J. M. Strick, R. L. Merrick, and J. P. Lewis. 1999. (NOAA-TM-AFSC-99). 43 p. (NTIS No. PB99-134462).

Alaska Marine Mammal Stock Assessments, 2000. Ferrero, R.C., D.P. DeMaster, P. S. Hill, M. M. Muto, and A. L. Lopez. 2000. (NOAA-TM-AFSC-119). 191 p. (NTIS No. PB2001-102015).

Alaska Marine Mammal Stock Assessments, 1999. Hill, P. S., and D. P. DeMaster. 1999. (NOAA-TM-AFSC-110). 166 p. (NTIS No. PB2000-102844).

Constructing Species Frequency Distributions - A Step Toward Systemic Management. Fowler, C. W., and M. A. Perez. 1999. (NOAA-TM-AFSC-109). 59 p. (NTIS No. PB2000-102552).

Food Habits of Some Commercially Important Groundfish in the Gulf of Alaska in 1990, 1993 and 1996. Yang, M. S., and M. W. Nelson. 2000. (NOAA-TM-AFSC-112). 174 p. (NTIS No. PB2000-103403).

Food Habits of Some Commercially Important Groundfish off the Coasts of California, Oregon, Washington, and British Columbia. Buckley, T. W., G. E. Tyler, D. M. Smith, and P. A. Livingston. 1999. (NOAA-TM-AFSC-102). 173 p. (NTIS No. PB99-166563).

Fur Seal Investigations, 1998. B. W. Robson (editors). 2000. (NOAA-TM-AFSC-113). 101 p. (NTIS No. PB2000-104258).

Fur Seal Investigations, 1997. Sinclair, E. H., and B. W. Robson (editors). 1999. (NOAA-TM-AFSC-106). 111 p. (NTIS No. PB2000-100223).

Guide to Rockfishes (Scorpaenidae) of the Genera *Sebastes*, *Sebastolobus*, and *Adelosebastes* of the Northeast Pacific Ocean. Orr, J. W., M. A. Brown, and D. C. Baker. 1998. (NOAA-TM-AFSC-95). 46 p. (NTIS No. PB99-114217).

Mobile Fishing Gear Effects on Benthic Habits: A Bibliography. Wion, D. A., and R. A. McConnaughey

(editor). 2000. (NOAA-TM-AFSC-116). 163 p. (NTIS No. PB2001-108106).

Proceedings of the First Biennial Canada/U.S. Observer Program Workshop. McElderry, H., W. A. Karp, J. Twomey, M. Merklein, V. Cornish, and M. Saunders. 1999. (NOAA-TM-AFSC-101). 113 p. (NTIS No. PB99-146482).

Results of a Pilot Program to Document Interactions Between Sperm Whales and Longline Vessels in Alaska Waters. Hill, P. S., J. L. Laake, and E. Mitchell. 1999. (NOAA-TM-AFSC-108). 42 p. (NTIS No. PB2000-101118).

Status Review of the Eastern North Pacific Stock of Gray Whales. Rugh, D. J., M. M. Muto, S. E. Moore, and D. P. DeMaster. 1999. (NOAA-TM-AFSC-103). 93 p. (NTIS No. PB99-172678).

Surficial Sediments of the Eastern Bering Sea Continental Shelf: EBSSD Database Documentation. Smith, K. R., and R. A. McConnaughey. 1999. (NOAA-TM-AFSC-104). 41 p. (NTIS No. PB2000-100938).

The 1998 Pacific West Coast Bottom Trawl Survey of Groundfish Resources: Estimates of Distribution, Abundance, and Length and Age Composition. Shae, F. R., M. E. Wilkins, K. L. Weinberg, M. Zimmerman and R. R. Lauth. 2000. (NOAA-TM-AFSC-114). 138 p. plus Appendices. (NTIS No. PB2000-105410).

The 1999 Pacific West Coast Upper Continental Slope Trawl Survey of Groundfish Resources off Washington, Oregon, and California: Estimates of Distribution, Abundance, and Length Composition. Lauth, R. R. 2000. (NOAA-TM-AFSC-115). 287 p. (NTIS No. PB2000-106004).

The 1997 Pacific West Coast Upper Continental Slope Trawl Survey of Groundfish Resources off Washington, Oregon, and California: Estimates of Distribution, Abundance, and Length Composition. Lauth, R. R. 1999. (NOAA-TM-AFSC-98). 284 p. (NTIS No. PB99-133043).

To purchase the preceding reports listed with NTIS, call or write:

NTIS -- ATTN: Order Desk
5285 Port Royal Road
Springfield, VA 22161

PHONE: 703-605-6000 (1-800-553-6847)

FAX: 703-605-6900

Internet Orders: <http://www.ntis.gov>

Fisheries Statistics & Economics

Contact Us | Site Map | Search NMFS

- ↑ National Oceanic & Atmospheric Administration
- ↑ National Marine Fisheries Service
- ↑ Office of Science & Technology

Fisheries Statistics & Economics Research, Analysis & Coordination International Science & Technology

About Us

- [Mission](#)
- [Publications](#)

The Fisheries Statistics & Economics Division collects data and coordinates information and research programs to support the science-based stewardship of the nation's living marine resources.

Career opportunities for economists and social scientists in NMFS

Areas of Interest

- [Commercial Fisheries](#)

- [Fisheries Economics](#)

- [Fishery Market News](#)

- [Foreign Trade Information](#)

- [Marine Recreational Fisheries](#)

- [National Observer Program](#)

In addition to integrating and disseminating state and federal statistics about marine fisheries, we coordinate the NMFS economics and fishery observer programs. Our efforts help to build sustainable fisheries.

The 1999 edition of [Fisheries of the United States](#) is available for download.

This site describes how and why we conduct all our programs, provides access to key databases (commercial fisheries landings, foreign trade, marine recreational fisheries catch and effort), and contains relevant links and references.

Visit our most popular page-[Fishery Market News](#) for the latest reports on prices and landings.

Related Links

- [NOAA Press Releases](#)
- [Regulations](#)

How to cite: Please cite data retrieved from

[Links to other International](#)

NATIONAL MARINE FISHERIES SERVICE HOME PAGES

The National Marine Fisheries Service provides information on programs and data available to the public and fishing industry via home page. Please use the following address for NMFS' home page - <http://www.nmfs.noaa.gov> through a personal computer. If you wish to access individual office home pages the addresses and a brief description follows:

Fisheries Statistics - <http://www.st.nmfs.gov/st1/> — Descriptions of commercial and recreational fisheries statistics data collection and economic programs. Access to commercial monthly landings data bases, Marine Recreational Fisheries Statistics Survey (MRFSS) data, cold storage, Market News Reports, processed products data, trade data base, vessel documentation data, and electronic copies of "Fisheries of the United States."

Atlantic Highly Migratory Species (HMS) - <http://www.nmfs.noaa.gov/sfa/hmspg.html> — HMS and Billfish Fishery Management Plans, implementing regulations and related documents. The Stock Assessment and Fishery Evaluation Report for HMS: SAFE2000. Information on Atlantic tunas permits and link to online permit shop. Lists of members of the Advisory Panels, upcoming meetings and other HMS news

Habitat Conservation - <http://www.nmfs.noaa.gov/habitat/> — Describes NOAA programs to conserve, protect, and restore habitats for living marine resources. Information on essential fish habitat, the NOAA Restoration Center and its Community-based Restoration Program, Damage Assessment and Restoration Program (DARP), and Coastal Wetlands Planning, Protection, and Restoration Act program (CWPPRA), and the NOAA Chesapeake Bay Office.

Inspection Program - <http://seafood.nmfs.noaa.gov> — Provides information on the voluntary National Seafood Inspection Program, including the services offered in the US and foreign countries to harvesters, processors, distributors, importers/exporters, buyers, and retailers; list of approved fish establishments and products; fees and charges; policies for advertising services; and official inspection marks and certificates.

Intergovernmental and Recreational Fisheries - <http://www.nmfs.noaa.gov/irf/irf.html> — Provides information on the Atlantic Coastal Fisheries Cooperative Management Act, the Atlantic Striped Bass Conservation Act, the Interjurisdictional Fisheries Act, the Anadromous Fisheries Conservation Act, and Executive Order 12962 - on Recreational fisheries.

Protected Resources - http://nmfs.noaa.gov/prot_res/prot_res.html — Contains recovery efforts for species considered endangered or threatened; depleted species of marine mammals; and a comprehensive list of other Internet resources pertaining to protection programs and other issues. Information on Endangered Species Act and Marine Mammal Protection Act.

Saltonstall-Kennedy Grant Program - <http://www.nmfs.noaa.gov/sfweb/skhome.html> — Description of the Saltonstall-Kennedy (S-K) Program, the most recent solicitation for proposals, application forms and instructions, FAQs, and Regional contacts for the S-K Program, as well as the latest update to the S-K Annotated Bibliography of completed projects.

Northeast Region - <http://www.nero.nmfs.gov/doc/nero.html> — Describes the mission and responsibilities of the Regional Office Staffs and Divisions. Provides information on northeast fisheries regulations, quota reports for specific species, multi-species preliminary statistics reports; scallop and multi-species days-at-sea activity reports; federal aid for MARFIN and SK grant programs; vessel permit system data; and links to other NOAA sites.

Northeast Fisheries Science Center - <http://www.nefsc.nmfs.gov> — Provides current and historical northeast fisheries information and data about research facilities, vessels, programs, publications, management, laws and regulations, and answers to frequently asked questions on fish and fisheries research. Features in-depth information on northeast stock status and realtime, at-sea, display of research vessel activities, measurements, and observations.

NATIONAL MARINE FISHERIES SERVICE HOME PAGES

Southeast Region - <http://caldera.sero.nmfs.gov/> — Provides information on regional Federal activities including: fisheries regulations, news releases and fisheries bulletins, fisheries regulations, vessel and dealer permits, fishery management plan implementation/quotas, marine mammals and endangered species management and protection, habitat protection and restoration activities, and federal aid programs for grants and cooperative agreements.

Southeast Fisheries Science Center - <http://www.sefsc.noaa.gov/> — Describes the Center's programs, mission, laboratories, geographic scope, organization, research vessels, and upper-level scientific and management staff. Includes publications, news releases, newsletters (tuna and billfish), and information on the types of research being conducted on Pacific and Antarctic fishes, marine mammals, sea turtles, habitats, and marine ecosystems.

Alaska Region - <http://www.fakr.noaa.gov> — Provides information on in-season state of groundfish catch, current news releases and information bulletins, and current fisheries outlook and effort reports. Information on the Community Development Quota (CDQ) Program, At-Sea Scales Program, fisheries regulations and the manual for Groundfish Recordkeeping and Reporting. Information on the Individual Fishing Quota (IFQ) Program, marine mammals, habitat conservation, and links to other fisheries web sites.

Alaska Fisheries Science Center - <http://www.afsc.noaa.gov/> — Describes the mission of the Center and the organization and purpose of its laboratories, divisions, and programs dedicated to Federal fisheries and marine mammal research in the coastal oceans off Alaska and the West Coast of the United States. Provides stock assessments, databases, AFSC Quarterly Report, cruise reports and schedules, other online documents, publication lists, image gallery of marine mammals, fishes, and crabs, and educational materials.

Northwest Region - <http://www.nwr.noaa.gov> — Provides information on the region's activities, mission and responsibilities. It includes news releases, announcements, documents and Federal Register notices about fisheries management plans, public hearings, programs, regulations, Endangered Species Act listings and proposals, habitat conservation, and regional hydro power activities.

Northwest Fisheries Science Center - <http://research.nwfsc.noaa.gov/nwfsc-homepage.html> — Describes Center research, including status and recovery of endangered salmon and new hatchery-rearing techniques; rapid-response analyzes of chemical pollution and harmful algae blooms in fishery grounds nationwide; assessing the west coast groundfish fishery; and developing new bycatch utilization technologies. News topics, current publications, library resources, and the Center's state-of-the-art water-recycling fish culture facility are also featured.

Southwest Region - <http://swr.ucsd.edu> — Describes the mission and responsibilities of the regional office. Announcements of Federal Register notices on seasons, trip limits, and quotas. Provides information on fisheries statistics, trade data, canned tuna updates and status of tuna import quotas, and catch reports for various California fisheries. Japanese market reports are available on sablefish, shrimp, landings and wholesale prices, etc., and links to other pertinent sites of interest to fishery and seafood industries.

Southwest Fisheries Science Center - <http://swfsc.ucsd.edu> — Describes the Center's programs, mission, laboratories, geographic scope, organization, research vessels, and upper-level scientific and management staff. Includes publications, news releases, billfish newsletter, and information on the types of research being conducted on Pacific and Antarctic fishes, marine mammals, sea turtles, habitats, and marine ecosystems.

NOAA Public Affairs - <http://www.noaaews.noaa.gov> — All NOAA and NMFS related Press Releases and links to other NOAA material available to the public. If you would like these releases through electronic mail rather than FAX, send e-mail to jslaff@hq.noaa.gov.

SEA GRANT EXTENSION SERVICE

The Office of Sea Grant is a major program element of the National Oceanic and Atmospheric Administration. The National Sea Grant College Program is funded jointly by the Federal Government and colleges or universities. Sea Grant's Extension Service offers a broad range of information concerning the Nation's fisheries to recreational and commercial fishermen, fish processors, and others. The following program leaders, listed alphabetically by State, can provide information on Sea Grant activities:

James D. Murray
National Sea Grant Extension Leader
 National Sea Grant Office/NOAA
 1315 East-West Highway, Room 11752
 Silver Spring, MD 20910
 (301) 713-2431 x152 FAX: 713-0799
 jim.d.murray@noaa.gov

Rick Wallace, Extension Leader
Alabama Sea Grant Extension
 Mississippi-Alabama Sea Grant
 Auburn University
 4170 Commander's Drive
 Mobile, AL 36615
 (334) 438-5690 FAX: 438-5670
 rwallace@acesag.auburn.edu

Donald E. Kramer, Extension Leader
Alaska Sea Grant
 University of Alaska
 2221 E. Northern Lights., #110
 Anchorage, AK 99508-4140
 (907) 274-9691 FAX: 277-5242
 fndek@uaa.alaska.edu

Christopher M. DeWees, Extension Leader
California Sea Grant College System
 University of California
 1 Shields Avenue
 Davis, CA 95616-8751
 (530) 752-1497 FAX: 752-4154
 cmdewees@ucdavis.edu

Nancy C. Balcom, Extension Leader
Connecticut Sea Grant
 University of Connecticut
 1084 Shennecossett Road
 Groton, CT 06340-6097
 (860) 405-9107 FAX: 405-9109
 balcom@uconnvm.uconn.edu

James M. Falk, Extension Leader
Delaware Sea Grant
 University of Delaware
 700 Plottown Road
 Lewes, DE 19958-1298
 (302) 645-4235 FAX: 645-4007
 jfalk@udel.edu

Michael Spranger, Extension Leader
Florida Sea Grant
 University of Florida
 PO Box 110405
 Gainesville, FL 32611-0405
 (352) 392-1837 x226 FAX: 392-5113
 msspranger@mail.ifas.ufl.edu

Michael Spranger, Extension Leader
Florida Sea Grant
 University of Florida
 PO Box 110405
 Gainesville, FL 32611-0405
 (352) 392-1837 x226 FAX: 392-5113
 msspranger@mail.ifas.ufl.edu

Keith W. Gates, Extension Leader
Georgia Sea Grant
 University of Georgia
 715 Bay Street
 Brunswick, GA 31520-4601
 (912) 264-7268 FAX: 264-7312
 kgates@arches.uga.edu

Acting Extension Leader
Hawaii Sea Grant
 University of Hawaii
 2525 Correa Road, HIG 232
 Honolulu, HI 96822
 (808) 956-8191 FAX: 956-2858

Brian Miller, Extension Leader
Illinois-Indiana Sea Grant
 Purdue University
 1200 Forest Products Building
 West Lafayette, IN 47907
 (765) 494-3573 FAX: 496-6026
 bmiller@fnr.purdue.edu

Michael M. Liffman, Extension Leader
Louisiana Sea Grant
 234 Sea Grant Building
 Louisiana State University
 Baton Rouge, LA 70803-5707
 (225) 578-6290 FAX: 578-6331
 mikelif@lsu.edu

Paul Anderson, Extension Leader
Maine Sea Grant - Univ. of Maine
 5715 Coburn Hall
 Orono, ME 04469-5715
 (207) 581-1422 FAX: 581-1426
 panderson@maine.edu

Douglas Lipton, Extension Leader
Maryland Sea Grant
 University of Maryland
 2200 Symons Hall
 College Park, MD 20742
 (301) 314-1280 FAX: 314-9091
 dlipton@arec.umd.edu

Clifford Goudey, Extension Leader
MIT Sea Grant
 Massachusetts Institute of Technology
 Building E38-300/Kendall Square
 292 Main Street
 Cambridge, MA 02139
 (617) 253-7079 FAX: 252-1615
 cgoudey@mit.edu

John D. Schwartz, Extension Leader
Michigan Sea Grant
 Michigan State University
 334 Natural Resources Building
 East Lansing, MI 48824-1222
 (517) 355-9637 FAX: 353-6496
 schwartj@msue.msu.edu

Jeffrey L. Gunderson, Extension Leader
Minnesota Sea Grant
 University of Minnesota, Duluth
 2305 E. 5th Street
 Duluth, MN 55812
 (218) 726-8715 FAX: 726-6556
 jgunder1@d.umn.edu

David C. Veal, Extension Leader
Mississippi Sea Grant Extension
 Mississippi-Alabama Sea Grant
 Mississippi State University
 2710 Beach Blvd., Suite 1-E
 Biloxi, MS 39531
 (228) 388-4710 FAX: 388-1375
 cdv@ra.msstate.edu

SEA GRANT EXTENSION SERVICE

Susan Halsey, Extension Leader

New Jersey Sea Grant

New Jersey Marine Science Consortium
Building No. 22

Fort Hancock, NJ 07732

(732) 872-1300 x32 FAX: 291-4483

shalsey@njmsc.org

Dale R. Baker, Extension Leader

New York Sea Grant

340 Roberts Hall

Cornell University

Ithaca, NY 14853-5905

(607) 255-2832 FAX: 255-2812

drb17@cornell.edu

Jack Thigpen, Extension Leader

North Carolina Sea Grant

North Carolina State University

P.O. Box 699

Manteo, NC 27954

(252) 441-3663 FAX: 441-7403

jthigpen@pinn.net

Frank R. Lichtkoppler

Co-Leader Extension

Ohio Sea Grant

Ohio State University

99 East Erie Street

Painesville, OH 44077

(440) 350-2582 FAX: 350-5928

lichtkoppler.1@osu.edu

Fred L. Snyder, Co-Leader Extension

Ohio Sea Grant

Ohio State University

Camp Perry

Building 3, Room 12

Port Clinton, OH 43452

(419) 635-1022 FAX: 635-1022

snyder.8@osu.edu

Jay Rasmussen, Extension Leader

Oregon Sea Grant

Oregon State University

2030 South Marine Science Drive

Newport, OR 97365-5296

(541) 867-0368 FAX: 867-0369

Jay.Rasmussen@hmsc.orst.edu

Eric C. Obert, Extension Leader

Pennsylvania Sea Grant

Pennsylvania State University

Station Road

Erie, PA 16563

(814) 898-6420 FAX: 898-6462

ecol@psu.edu

Ruperto Chaparro, Extension Leader

Puerto Rico Sea Grant

University of Puerto Rico

PO Box 9011

Mayaguez, PR 00681-9011

(787) 832-8045 FAX: 265-2880

r_chaparro@rumac.uprm.edu

Ames B. Colt, Extension Leader

Rhode Island Sea Grant

Coastal Institute Building

URI Narragansett Bay Campus

Narragansett, RI 02882

(401) 874-6800

acolt@gso.uri.edu

Robert H. Bacon, Extension Leader

South Carolina Sea Grant

287 Meeting Street

Charleston, SC 29401

(843) 727-2075 FAX: 727-2080

Robert.Bacon@sceagrnt.org

Judith D. Lemus, Extension Leader

Southern California Sea Grant

University of Southern California

University Park

Los Angeles, CA 90089-0373

(213) 740-1965 FAX: 740-5936

jdlemus@usc.edu

Ralph Rayburn, Extension Leader

Texas Sea Grant

Texas A&M University

2700 Earl Rudder Fwy South, Suite 1800

College Station, TX 77845

(979) 845-7524 FAX: 845-7525

ralphr@unix.tamu.edu

Lawrence Forcier, Acting Extension Leader

Vermont Sea Grant

University of Vermont

601 Main Street

Burlington, VT 05401-3439

(802) 656-2980 FAX: 656-8642

LForcier@zoo.uvm.edu

William D. DuPaul, Extension Leader

Virginia Sea Grant

Virginia Institute of Marine Science

Gloucester Pt., VA 23062

(804) 684-7163 FAX: 684-7161

dupaul@vims.edu

Acting Extension Leader

Washington Sea Grant

University of Washington

3716 Brooklyn Avenue, NE

Seattle, Washington 98105-6716

(206) 685-9261 FAX: 685-0380

Allen H. Miller, Extension Leader

Wisconsin Sea Grant

University of Wisconsin

Goodnight Hall, Floor 2

1975 Willow Drive

Madison, WI 53706-1103

(608) 262-0645 FAX: 262-0591

ahmiller@seagrnt.wisc.edu

Dale F. Leavitt, Extension Leader

Woods Hole Sea Grant Program

Woods Hole Oceanographic Institution

193 Oyster Pond Road, MS #2

Woods Hole, MA 02543-1525

(508) 289-2997 FAX: 457-2172

dleavitt@whoi.edu

NATIONAL SEA GRANT LIBRARY

(Clearinghouse for all Sea Grant Publications)

Pell Library, University of Rhode Island - Bay Campus

Narragansett, RI 02882

PHONE: 401-874-6160 -- nsgd.gso.uri.edu

ANADROMOUS SPECIES. These are species of fish that mature in the ocean, and then ascend streams to spawn in freshwater. In the Magnuson Act, these species include, but are not limited to, Atlantic and Pacific salmon, steelhead trout, and striped bass. See 42 FR 60682, Nov. 28, 1977.

ANALOG PRODUCTS. These include imitation and simulated crab, lobster, shrimp, scallops, and other fish and shellfish products fabricated from processed fish meat (such as surimi).

AQUACULTURE. The farming of aquatic organisms in marine, brackish or fresh water. Farming implies private or corporate ownership of the organism and enhancement of production by stocking, feeding, providing protection from predators, or other management measures. Aquaculture production is reported as the weight and value of cultured organisms at their point of final sale.

BATTER-COATED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a batter containing a leavening agent and mixture of cereal products, flavoring, and other ingredients, and partially cooked in hot oil a short time to expand and set the batter.

BOAT, OTHER. Commercial fishing craft not powered by a motor, e.g., rowboat or sailboat, having a capacity of less than 5 net tons. See motorboat.

BREADED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a non-leavened mixture containing cereal products, flavorings, and other ingredients. Breaded products are sold raw or partially cooked.

BREADED SHRIMP. Peeled shrimp coated with breading. The product may be identified as fantail (butterfly) and round, with or without tail fins and last shell segment; also known as portions, sticks, steaks, etc., when prepared from a composite unit of two or more shrimp pieces whole shrimp or a combination of both without fins or shells.

BUTTERFLY FILLET. Two skin-on fillets of a fish joined together by the belly skin. See fillets.

CANNED FISHERY PRODUCTS. Fish, shellfish, or other aquatic animals packed in cans, or other containers, which are hermetically sealed and heat-sterilized. Canned fishery products may include milk, vegetables, or other products. Most, but not all, canned fishery prod-

ucts can be stored at room temperature for an indefinite time without spoiling.

COMMERCIAL FISHERMAN. An individual who derives income from catching and selling living resources taken from inland or marine waters.

CONSUMPTION OF EDIBLE FISHERY PRODUCTS. Estimated amount of commercially landed fish, shellfish, and other aquatic animals consumed by the civilian population of the United States. Estimates are on an edible-weight basis and have been adjusted for beginning and ending inventories of edible fishery products. Consumption includes U.S. production of fishery products from both domestically caught and imported fish, shellfish, other edible aquatic plants, animals, and imported products and excludes exports and purchases by the U.S. Armed Forces.

CONTINENTAL SHELF FISHERY RESOURCES. These are living organisms of any sedentary species that at the harvestable stage are either (a) immobile on or under the seabed, (b) unable to move except in constant physical contact with the seabed or subsoil of the continental shelf. The Magnuson Act now lists them as certain abalones, surf clam and ocean quahog, queen conch, Atlantic deep-sea red crab, dungeness crab, stone crab, king crabs, snow (tanner) crabs, American lobster, certain corals, and sponges.

CURED FISHERY PRODUCTS. Products preserved by drying, pickling, salting, or smoking; not including canned, frozen, irradiated, or pasteurized products. Dried products are cured by sun or air-drying; pickled or salted products are those products preserved by applying salt, or by pickling (immersing in brine or in a vinegar or other preservative solution); smoked products are cured with smoke or a combination of smoking and drying or salting.

DEFLATED VALUE. The deflated values referred to in this document are calculated with the Gross Domestic Products Implicit Price Deflator. The base year for this index is 1987.

EDIBLE WEIGHT. The weight of a seafood item exclusive of bones, offal, etc.

EEZ. See U.S. Exclusive Economic Zone.

EL NINO. This anomalous ocean warming of the eastern Equatorial Pacific occurs at time intervals varying from 2-10 years. El Nino conditions result in an accu-

mulation of warm water off South America which reduced the upwelling of nutrient-rich water necessary to support fisheries production. These conditions extended northward to the U.S. Pacific Coast. In addition to affecting the food available for fish, El Nino appears to alter the normal ranges, distributions, and migrations of fish populations.

EUROPEAN UNION. Austria, Belgium and Luxembourg, Denmark, Federal Republic of Germany, Finland, Greece, France, Ireland, Italy, Netherlands, Portugal, Spain, Sweden, and United Kingdom.

EXPORT VALUE. The value reported is generally equivalent to f.a.s. (free alongside ship) value at the U.S. port of export, based on the transaction price, including inland freight, insurance, and other charges incurred in placing the merchandise alongside the carrier at the U.S. port of exportation. The value excludes the cost of loading, freight, insurance, and other charges or transportation cost beyond the port of exportation.

EXPORT WEIGHT. The weight of individual products as exported, i.e., fillets, steaks, whole, breaded, etc. Includes both domestic and foreign re-exports data.

EXVESSEL PRICE. Price received by the harvester for fish, shellfish, and other aquatic plants and animals.

FISH BLOCKS. Regular fish blocks are frozen blocks or slabs of fillets or pieces of fillets cut or sliced from fish. Minced fish blocks are frozen blocks or slabs of minced flesh produced by a meat and bone separating machine.

FISH FILLETS. The sides of fish that are either skinned or have the skin on, cut lengthwise from the backbone. Most types of fillets are boneless or virtually boneless; some may be labeled as "boneless fillets."

FISH MEAL. A high-protein animal feed supplement made by cooking, pressing, drying, and grinding fish or shellfish.

FISH OIL. An oil extracted from body (body oil) or liver (liver oil) of fish and marine mammals; mostly a byproduct of fish meal production.

FISH PORTION. A piece of fish flesh that is generally of uniform size with thickness of 3/8 of an inch or more and differs from a fish stick in being wider or of a different shape. A fish portion is generally cut from a fish block.

FISH SOLUBLES. A water-soluble protein byproduct of fish meal production. Fish solubles are generally

condensed to 50 percent solids and marketed as "condensed fish solubles."

FISH STEAK. A cross-section slice cut from a large dressed fish. A steak is usually about 3/4 of an inch thick.

FISH STICK. An elongated piece of breaded fish flesh weighing not less than 3/4 of an ounce and not more than 1-1/2 ounces with the largest dimension at least three times that of the next largest dimension. A fish stick is generally cut from a fish block.

FISHERY MANAGEMENT PLAN (FMP). A plan developed by a Regional Fishery Management Council, or the Secretary of Commerce under certain circumstances, to manage a fishery resource in the U.S. EEZ pursuant to the MFCMA (Magnuson Act).

FISHING CRAFT, COMMERCIAL. Boats and vessels engaged in capturing fish, shellfish, and other aquatic plants and animals for sale.

FULL-TIME COMMERCIAL FISHERMAN. An individual who receives more than 50 percent of his or her annual income from commercial fishing activities, including port activity, such as vessel repair and re-rigging.

GROUND FISH. Broadly, fish that are caught on or near the sea floor. The term includes a wide variety of bottom fishes, rockfishes, and flatfishes. However, NMFS sometimes uses the term in a narrower sense. In "Fisheries of the United States," the term applies to the following species--Atlantic and Pacific: cod, hake, ocean perch, and pollock; cusk; and haddock.

IMPORT VALUE. Value of imports as appraised by the U.S. Customs Service according to the Tariff Act of 1930, as amended. It may be based on foreign market value, constructed value, American selling price, etc. It generally represents a value in a foreign country, and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise to the United States.

IMPORT WEIGHT. The weights of individual products as received, i.e., fillets, steaks, whole, headed, etc.

INDUSTRIAL FISHERY PRODUCTS. Items processed from fish, shellfish, or other aquatic plants and animals that are not consumed directly by humans. These items contain products from seaweeds, fish meal, fish oils, fish solubles, pearl essence, shark and other aquatic animal skins, and shells.

INTERNAL WATER PROCESSING (IWP). An operation in which a foreign vessel is authorized by the governor of a state to receive and process fish in the internal waters of a state. The Magnuson Act refers to internal waters as all waters within the boundaries of a state except those seaward of the baseline from which the territorial sea is measured.

JOINT VENTURE. An operation authorized under the MFCMA (Magnuson Act) in which a foreign vessel is authorized to receive fish from U.S. fishermen in the U.S. EEZ. The fish received from the U.S. vessel are part of the U.S. harvest.

LANDINGS, COMMERCIAL. Quantities of fish, shellfish, and other aquatic plants and animals brought ashore and sold. Landings of fish may be in terms of round (live) weight or dressed weight. Landings of crustaceans are generally on a live-weight basis except for shrimp which may be on a heads-on or heads-off basis. Mollusks are generally landed with the shell on, but for some species only the meats are landed, such as sea scallops. Data for all mollusks are published on a meat-weight basis.

MAGNUSON-STEVENS FISHERY CONSERVATION AND MANAGEMENT ACT, Public Law 94-265, as amended. The Magnuson-Stevens Act provides a national program for the conservation and management of fisheries to allow for an optimum yield (OY) on a continuing basis and to realize the full potential of the Nation's fishery resources. It established the U.S. Exclusive Economics Zone (EEZ) (formerly the FCZ - Fishery Conservation Zone) and a means to control foreign and certain domestic fisheries through PMPs and FMPs. Within the U.S. EEZ, the United States has exclusive management authority over fish (meaning finfish, mollusks, crustaceans, and all other forms of marine animal and plant life other than marine mammals, birds, and highly migratory species of tuna). The Magnuson Act provides further exclusive management authority beyond the U.S. EEZ for all continental shelf fishery resources and all anadromous species throughout the migratory range of each such species, except during the time they are found within any foreign nation's territorial sea or fishery conservation zone (or the equivalent), to the extent that such a sea or zone is recognized by the United States.

MARINE RECREATIONAL FISHING. Fishing for pleasure, amusement, relaxation, or home consumption.

MARINE RECREATIONAL CATCH. Quantities of finfish, shellfish, and other living aquatic organisms caught, but not necessarily brought ashore, by marine recreational fisherman.

MARINE RECREATIONAL FISHERMEN. Those people who fish in marine waters primarily for recreational purposes. Their catch is primarily for home consumption, although occasionally a part or all of their catch may be sold and enter commercial channels. This definition is used in the NMFS Marine Recreational Fishery Statistics Survey, and is not intended to represent a NMFS policy on the sale of angler-caught fish.

MAXIMUM SUSTAINABLE YIELD (MSY). MSY from a fishery is the largest annual catch or yield in terms of weight of fish caught by both commercial and recreational fishermen that can be taken continuously from a stock under existing environmental conditions. A determination of MSY, which should be an estimate based upon the best scientific information available, is a biological measure necessary in the development of optimum yield.

METRIC TONS. A measure of weight equal to 1,000 kilograms, 0.984 long tons, 1.1023 short tons, or 2,204.6 pounds.

MOTORBOAT. A motor-driven commercial fishing craft having a capacity of less than 5 net tons, or not officially documented by the Coast Guard. See "boat, other".

NORTHWEST ATLANTIC FISHERIES ORGANIZATION (NAFO). This convention, entered into force January 1, 1979, replaces ICNAF. NAFO provides a forum for continued multilateral scientific research and investigation of fishery resources that occur beyond the limits of coastal nations' fishery jurisdiction in the northwest Atlantic, and will ensure consistency between NAFO management measures in this area and those adopted by the coastal nations within the limits of their fishery jurisdiction.

OPTIMUM YIELD (OY). In the MFCMA (Magnuson Act), OY with respect to the yield from a fishery, is the amount of fish that (1) will provide the greatest overall benefit to the United States, with particular reference to food production and recreational opportunities; and (2) is prescribed as such on the basis of maximum sustainable yield from such fishery, as modified by any relevant ecological, economic, or social factors.

PART-TIME COMMERCIAL FISHERMAN. An individual who receives less than 50 percent of his or her annual income from commercial fishing activities.

PER CAPITA CONSUMPTION. Consumption of edible fishery products in the United States divided by the total civilian population. In calculating annual per capita consumption, estimates of the civilian resident population of the United States on July 1 of each year are used. These estimates are taken from current population reports, series P-25, published by the U.S. Bureau of the Census.

PER CAPITA USE. The use of all fishery products, both edible and nonedible, in the United States divided by the total population of the United States.

PRELIMINARY FISHERY MANAGEMENT PLAN (PMP). The Secretary of Commerce prepares a PMP whenever a foreign nation with which the United States has made a Governing International Fishery Agreement (GIFA) submits an application to fish in a fishery not managed by an FMP. A PMP is replaced by an FMP as soon as the latter is implemented. A PMP applies only to foreign fishing.

RE-EXPORTS. Re-exports are commodities which have entered the U.S. as imports and are subsequently exported in substantially the same condition as when originally imported.

RETAIL PRICE. The price of fish and shellfish sold to the final consumer by food stores and other retail outlets.

ROUND (LIVE) WEIGHT. The weight of fish, shellfish, or other aquatic plants and animals as taken from the water; the complete or full weight as caught. The tables on world catch found in this publication include, in the case of mollusks, the weight of both the shells and the meats, whereas the tables on U.S. landings include only the weight of the meats.

SURIMI. Minced fish meat (usually Alaska pollock) which has been washed to remove fat and undesirable matters (such as blood, pigments, and odorous substances), and mixed with cryoprotectants, such as sugar and/or sorbitol, for a good frozen shelf life.

TOTAL ALLOWABLE LEVEL OF FOREIGN FISHING (TALFF). The TALFF, if any, with respect to any fishery subject to the exclusive fishery management authority of the United States, is that portion of the optimum yield of such fishery which will not be harvested by vessels of the United States, as determined by provisions of the MFCMA.

U.S. EXCLUSIVE ECONOMIC ZONE (EEZ). The MSFCMA (Magnuson-Stevens Act) defines this zone as contiguous to the territorial sea of the United States and extending seaward 200 nautical miles measured from the baseline from which the territorial sea is measured. This was formerly referred to as the FCZ (Fishery Conservation Zone).

U.S.-FLAG VESSEL LANDINGS. Includes landings by all U.S. fishing vessels regardless of where landed as opposed to landings at ports in the 50 United States. These include landings at foreign ports, U.S. territories, and foreign vessels in the U.S. FCZ under joint venture agreements. U.S. law prohibits vessels constructed or registered in foreign countries to land fish catches at U.S. ports.

U.S. TERRITORIAL SEA. A zone extending 3 nautical miles from shore for all states except Texas and the Gulf Coast of Florida where the seaward boundary is 3 marine leagues (9 nautical miles)

USE OF FISHERY PRODUCTS. Estimated disappearance of the total supply of fishery products, both edible and nonedible, on a round-weight basis without considering beginning or ending stocks, exports, military purchases, or shipments to U.S. territories.

VESSEL. A commercial fishing craft having a capacity of 5 net tons or more. These craft are either enrolled or documented by the U.S. Coast Guard and have an official number assigned by that agency.

WHOLESALE FISH AND SHELLFISH PRICES. Those prices received at principal fishery markets by primary wholesalers (processors, importers, and brokers) for customary quantities, free on board (f.o.b.) warehouse.

Statistical Subject Index

AQUACULTURE

Production 23

CLAMS

Aquaculture, 23

Canned, 53

Exports, 68, 82

Frozen holdings, 58, 59

Imports, 61, 82

Landings, 3, 12, 18, 82

Supply, 82

Value of landings, 3, 12, 18

COLDSTORAGE

Holdings, monthly, 56-59

CONSUMPTION

Canned, 86, 87

Cured, 86

Fillets and steaks, 87

Fresh and frozen, 86

Per capita, U.S., 86

Per capita, use, 90

Salmon, canned, 87

Sardines, canned, 87

Shellfish, canned, 87

Shrimp, 87

Sticks and portions, 87

Tuna, canned, 87

World, 88

CRABS

Canned, 53, 80

Exports, 68, 73, 80

Frozen holdings, 58, 59

Imports, 61, 82

Landings, 4, 12, 18, 21, 22

Supply, 80

Value of landings, 4, 12, 18, 21, 22

World catch, 47

CRAFT FISHING

Number, by region and state, 94

DISPOSITION OF LANDINGS

United States, 5

World, 49

EMPLOYMENT

Processors and wholesalers, 95

Region and State, 95

EXPORTS

All fishery products, 68

Crabs, 68, 73

Crabmeat, 68, 73

Continent and country, by, 70

Cured, 68

Edible, by years, 69

Fish meal, 68, 74, 84

Herring, 68

Nonedible, by years, 69

Oils, 68, 74, 84

Principal items, 68

Salmon, canned, 68, 72, 79

Salmon, whole or eviscerated, 68, 72

Sardines, canned, 68, 79

Shrimp, canned, 68, 83

Shrimp, domestic and foreign products, 71, 83

Shrimp, fresh and frozen, 68, 71

Snow (tanner) crab, 80

Value, by years, 69

Volume, by years, 69

World, by country, 49

FLOUNDERS

Fillets, 52

Frozen holdings, 56, 57

Landings, 1, 8, 14

Value of landings, 1, 8, 14

GROUND FISH FILLETS

AND STEAKS

Exports, 68

Fillets, supply, 77

Imports, 61, 77

HALIBUT

Fillets and steaks, 52

Frozen holdings, 56, 57

Landings, 1, 9, 15

Value of landings, 1, 9, 15

HERRING, SEA

Canned (sardines), 53

Consumption (sardines), per capita, 87

Landings, 1, 9, 15

Exports (sardines), 68

Imports (sardines), 61

Value of landings, 1, 9, 15

World catch, 47

IMPORTS

All fishery products, 61, 62

Blocks and slabs, 61, 64

Clams, canned, 61

Continent and country, by, 63

Crabmeat, canned, fresh and frozen, 61, 80

Cured, 61

Edible, 61, 62, 63, 76, 77

Fillets, groundfish, 61, 64, 77

Fillets, other than groundfish and ocean perch, 61

Finfish, 69

Groundfish, 61, 64, 77

Herring, canned, 61

Industrial, 76, 77

Lobsters, canned, 61

Lobsters, fresh and frozen, 61

Meal and scrap, 61, 67

Nonedible, 61, 62, 63

Oils, 61, 84

Oysters, canned, 61

Principal items, 61

Quota, canned tuna, not in oil, 65

Salmon, canned, 61, 79

Salmon, fresh and frozen, 61

Sardines, canned, 61, 79

Scallop meats, 61, 82

Shellfish, 76

Shrimp, by country, 66

Shrimp, by products, 67

Tuna, canned, 61, 65, 79

Tuna, fresh and frozen, 61, 79

Value, by years, 62

Volume, by year, 62

World, by country, 49

INSPECTION

Establishments and amount inspected, 96

LANDINGS

Disposition, 5

Foreign shores, off, 8, 14

Human food (edible), 5

Industrial, 5

Months, by, 5

Ports, major U.S., 7

Record year, by states, 6

Species, 1, 8, 14

State and region, current, 6

Statistical Subject Index

LANDINGS

Territory, 20
U.S. shores, distance from, 8, 14
World, 47, 48, 49

LOBSTERS, AMERICAN

Imports, 61, 81
Landings, 4, 12, 18, 81
Supply, 81
Value of landings, 4, 12, 18

LOBSTER, SPINY

Frozen holdings, 58, 59
Imports, 61, 81
Landings, 4, 12, 18, 21, 22, 81
Supply, 81
Value of landings, 4, 12, 18, 21, 81

MACKERELS

Landings, 2, 9, 15, 20
Value of landings, 2, 9, 15, 20
World catch, 47

MAGNUSON FISHERY

CONSERVATION AND

MANAGEMENT ACT (MFCMA)

Fishery Management Plan, 97
General description, 97
Optimum yield by species, 100
Permits, foreign fishing, 97
Regional Fishery Management
Councils, 99

MEAL AND SCRAP

Exports, 68, 74
Imports, 61, 67
Production, U.S., 55
Supply, 83
World disposition, 49

MENHADEN

Landings, 2, 9, 15
Value of landings, 2, 9, 15

OIL

Exports, 68, 83
Imports, 61, 83
Production, 55
Supply, 83
World disposition, 49

OYSTERS

Aquaculture, 23
Canned, 53
Imports, 61, 82
Landings, 4, 12, 18, 21, 23
Supply, 82
Value of landings, 4, 12, 18, 21, 23
World catch, 47

PLANTS AND FIRMS

Employment, 95
Processors and wholesalers, 95

PRICES

Exvessel index, 93

PROCESSING

Animal food and bait, canned, 51, 54
Canned products, 53, 54, 68
Clams, canned, 53
Crabs, canned, 53, 80
Employment in, 95
Fillets and steaks, fresh
and frozen, 52
Frozen holdings, 56 - 59
Industrial products, 55
Meal, oil, 51, 55
Oysters, canned, 53
Plants, number of, 95
Salmon canned, 53
Sardines, canned, 53
Shrimp, canned, 53
Sticks, portions, and
breaded shrimp, 51

RECREATIONAL FISHERIES

Harvest by species, 29
Harvest by species and by fishing
mode, 32
Harvest by species and by distance
from shore, 36
Harvest and live releases by year, 40
Harvest and live releases by state, 45
MRFSS, program description, 26
Number of anglers by state, 46
Number of fishing trips by state, 46
Statistical survey coverage, 28
Statistical data types/definitions, 26

SALMON

Aquaculture, 23
Canned, 53, 79

SALMON

Consumption, per capita, 87
Exports, 68, 72
Fillets and steaks, 52
Frozen holdings, 56, 58
Imports, 61
Landings, 2, 10, 16
Supply, canned, 79
Value of landings, 2, 10, 16
World catch, 47

SARDINES

Canned, 53, 79
Consumption, per capita, 87
Exports, 68, 79
Imports, 61, 68
Landings, 2, 10, 16
Supply, canned, 79
World catch, 47

SCALLOPS

Exports, 68, 82
Imports, 61, 82
Landings, 4, 13, 19
Supply, 82
Value of landings, 4, 13, 19
World catch, 47

SHRIMP

Aquaculture, 23
Breaded, 51
Canned, 53, 61, 83
Consumption, per capita, 87
Exports, 70, 71, 83
Frozen holdings, 58, 59
Imports, 61, 66, 67, 83
Landings, head-off, 83
Landings, head-on, 4, 13, 19, 21
Supply, canned, 83
Supply, total, 83
Value of landings, 4, 13, 19, 21
World catch, 47

SUPPLY

All fishery products, 75, 76
Clam meats, 82
Crabs, 80
Crabmeat, 80
Edible fishery products, 75, 76
Fillets and steaks, all, 77
Fillets and steaks, groundfish, 77
Finfish, 76

Statistical Subject Index

SUPPLY

Industrial Products, 75, 76
Lobster, American, 81
Lobster, spiny, 81
Meal, 84
Oil, 84
Oysters, 82
Salmon, canned, 79
Sardines, canned, 79
Scallop meats, 82
Shellfish, 76
Shrimp, 83
Tuna, 78

SWORDFISH

Landings, 3, 11, 17, 22
Value of landings, 3, 11, 17, 22

TUNA

Canned, 53, 61, 65, 79
Consumption, per capita, 88

TUNA

Exports, 68
Fresh and Frozen, 78
Imports, 61, 65, 79
Landings, 3, 11, 17, 21, 22
Quota, imports, canned, 65
Supply, canned, 79
Value of landings, 3, 11, 17, 21, 22
World catch, 47

USE

Per capita, 90
Landings, by month, 5
Valued added, 91

WHITING

Frozen holdings, 56, 57
Landings, 1, 9, 15
Value of landings, 1, 9, 15

WORLD FISHERIES

Acquaculture, 47
Catch by countries, 48
Catch by major fishing areas, 48
Catch by species groups, 47
Catch by year, 47
Catch by water type, 47, 48
Consumption, 88
Disposition, 49
Imports and exports value, 49

Federal Inspection Marks for Fishery Products

NATIONAL FISHERY PRODUCTS INSPECTION PROGRAM. The U.S. Department of Commerce (USDC), National Marine Fisheries Service, a part of the National Oceanic and Atmospheric Administration, conducts a voluntary seafood inspection program on a fee-for-service basis. A HACCP-based service is also available. Services provided by the program include vessel and plant sanitation, product inspection and grading, label reviews, product specification reviews, laboratory analyses, training, education and information. Inspection and certification services are available nationwide and in U.S. territories for all interested parties. Consultative services are provided in foreign countries. Inspection and certification services are also provided for imported and exported products. The USDC Seafood Inspection Division also provides HACCP training, plan development, implementation assistance, and verification service to industry (domestic and foreign) for the purpose of demonstrating compliance with FDA's HACCP rule (21 CFR Parts 123 and 1240) regarding "Procedures for the Safe and Sanitary Processing and Importing of Fish and Fishery Products" which was implemented December 18, 1997.

USERS OF INSPECTION SERVICES. The users of the voluntary seafood inspection service include vessel owners, processors, distributors, brokers, retailers, food service operators, exporters, importers, and those who have a financial interest in buying and selling seafood products. The U.S. Department of Agriculture recommends that USDC inspected products be purchased for its food feeding programs. The **USDC APPROVED LIST OF FISH ESTABLISHMENTS AND PRODUCTS**, published bi-annually, provides a listing of products and participants who contract with USDC.

USDC INSPECTION MARKS. These marks designate the level and the type of inspection performed by the federal inspector. The marks can be used in advertising and labeling under the guidelines provided by the Seafood Inspection Division and in accordance with federal and state regulations regarding advertising and labeling. Products bearing the USDC official marks have been certified as being safe, wholesome, and properly labeled.

"US GRADE A" MARK. The U.S. GRADE A mark signifies that a product has been processed under federal inspection in an approved facility and meets the established level of quality of an existing U.S. grade standard. The U.S. Grade A mark indicates that the product is of high quality, uniform in size, practically free from blemishes and defects, in excellent condition and possessing good flavor and odor.

"PROCESSED UNDER FEDERAL INSPECTION" MARK. The PUFI mark or statement signifies that the product has been inspected in an approved facility and was found to be safe, wholesome and properly labeled according to approved specifications or criteria. The language within the PUFI mark has been amended to "Processed Under Federal Inspection" to reflect actual inspection procedures and the regulatory requirements for use of the mark.

"LOT INSPECTED" MARK. A new USDC Lot Inspected mark was created to replace the "Officially Sampled" and "Accepted Per Specifications" lot inspection marks used on retail labels. The latter marks were no longer allowed/accepted after September 30, 1997. The use of the new mark meets the needs of both industry and consumers by conveying that the products bearing the mark have been examined by the USDC Program.

"RETAIL" MARK. In response to requests made by industry, a new mark has been created for retail or food service establishments. Participants qualify for use of the "Retail Mark" by receiving the USDC HACCP-based service or being under contract for sanitation services and associated product evaluation. Usage of such a mark will give the retail industry the opportunity to advertise on their banners, logos, or menus that their facility has been recognized by USDC for proper sanitation and handling of fishery products.



USDC HACCP MARK. The USDC HACCP-based service is available to all interested parties on a fee-for-service basis. Label approval, record keeping and analytical testing are program requirements. An industry USDC-certified employee trained in HACCP principles is also required for each facility/site in the program. Compliance ratings determine frequency of official visits. Benefits to participants include increased controls through a more scientific approach, use of established marks, increased efficiency of federal inspection personnel, and enhanced consumer confidence. The USDC has made available a HACCP mark and a "banner" to distinguish products that have been produced under the HACCP-based program. The HACCP banner must be used as an attachment to existing inspection grade marks. Establishments meeting HACCP program requirements may use these marks in conjunction with promotional material, packaging, point-of-sale notices, and menus.

FOR FURTHER INFORMATION:

U.S. Department of Commerce, NOAA/NMFS
Seafood Inspection Division - F/SF6

1315 East-West Highway
Silver Spring, MD 20910
(301) 713-2355 (FAX: 713-1081)

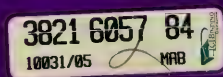
Toll Free: 1-800-422-2750

Internet: <http://seafood.ssp.nmfs.gov/iss/issue.html>

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service, F/ST1
1315 East West Highway -
Silver Spring, MD 20910-3282

40

OFFICIAL BUSINESS



SMITHSONIAN INSTITUTION LIBRARIES



3 9088 01123 1073